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# FAOPS

## NEWSLETTER

Vol. 11 No. 1, June 2002 ISSN 0858-4354 <http://www.adinstruments.com/FAOPS>

## The 5<sup>th</sup> Scientific Congress of FAOPS

By Prof. Cheah Swee Hung

The 5<sup>th</sup> FAOPS Scientific Congress will be held from 23<sup>rd</sup>-25<sup>th</sup> September 2002 in Kuala Lumpur. The congress will be hosted by the Malaysian Society of Pharmacology and Physiology.

An exciting program has been planned. There will be 4 plenary and approximately 10 special lectures. Eighteen symposia with three speakers each will be presented over the four days. Free communications sessions both oral and poster on various aspects of the life sciences will be held also. There will certainly be something that will fit your area of interest. Please check our web site for the latest updates on the program.

Aside from the congress proper, pre-congress workshops on the use of computer (18 and 19th September) and problem based learning (20 and 21 September) in the teaching of physiology and the life sciences will be held.

The facilitators for the computer workshop are Dr. R. Kemm of the University of Melbourne, Dr. M. Afandi Muhammad of the University of Malaya. Dr. Kemm is the Education Commissioner for FAOPS and has designed the computer-based learning program at the University of Melbourne. He has wide experience as facilitator in teaching workshops and is an expert in the design and use of

multimedia for Physiology teaching. Dr. Afandi has experience in designing multimedia-teaching packages.

Dr. David Kwan of McMaster University Medical School and Dr. Ann Sefton of Australia will be running the PBL workshops. Prof. Sefton is the Education Commissioner for IUPS and has wide experience in the PBL and assessment methods. Prof. Kwan is from the university that originated the PBL method and has had long experience in organizing and demonstrating the PBL method.

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## Editorial

This issue of the FAOPS newsletter is devoted to promote the 5<sup>th</sup> FAOPS Congress to be held in Kuala Lumpur during September 23-26, 2002. The Congress is hosted by the Malaysian Society of Pharmacology and Physiology. The organizer has been working very hard to make the scientific program attractive. Many leading scientists have committed to contribute to the meeting. Besides, pre-congress workshop offers interesting topics for discussion among devoted physiology teachers. In this issue the current status of physiology teaching in Thailand is reported. Your contributions on this topic will be appreciated.

Responses to the request that the adhering bodies reproduce their own copies of the newsletter for circulation from the electronic format supplied by my office are exceedingly good. This makes a substantial reduction in the cost of printing and mailing. I would also like to ask those who have their own web page to provide a space for FAOPS newsletter.

Once again, I wish to call for your inputs to the newsletter, which are almost none at present. I hope to see some of you in Kuala Lumpur, until then.

Chumpol Pholpramool, Ph.D.

The Editor

Email: [sccpp@mahidol.ac.th](mailto:sccpp@mahidol.ac.th)

Visit our web page at <http://www.adinstruments.com/FAOPS>

### *Facts about FAOPS Congress*

Venue: Crown Princess Hotel

Dates: 23-26 September, 2002

Registration: from 22 September, 2002

Pre-congress workshop: 18-21 September, 2002

Venue: University of Malaya, Faculty of Medicine

Post-congress Symposium on EDC 27 September, 2002

Website: <http://www.um.edu.my/conf/FAOPS/index.html>

Contact e-mail: [a12gowri@umcsd.um.edu.my](mailto:a12gowri@umcsd.um.edu.my) or [a12dora@umcsd.um.edu.my](mailto:a12dora@umcsd.um.edu.my)

Address: Secretariat, 5<sup>th</sup> FAOPS Congress

University of Malaya Center for Continuing Education

Level 3 , Block C, Institute of Postgraduate Studies

University of Malaya

Tel: 603-76257984 Fax:603-76257884

A post-congress satellite symposium on the biology and chemistry of Endocrine Disrupting Chemicals will be held on the 27 September. This will be organized and conducted by Dr. Ishwar Parhar of Nippon Medical School in Japan and Dr. Mustafa Mohd Ali of the University of Malaya. A number of well-known speakers will speak at the symposium. More details on various programs can be found at the congress web site. On-line registration is also available by clicking on the appropriate button.

Thus we promise a strong scientific content with special emphasis on education. We hope that you will make it a point to come and join us here in Kuala Lumpur.

### **Coming to Kuala Lumpur**

There are many ways to get into Kuala Lumpur (KL). By land, excellent highways and rail lines connect Thailand and Singapore to KL.

If you fly into Malaysia, you will probably touch down at the sparkling new Kuala Lumpur International Airport in Sepang, about 70 km south of Kuala Lumpur (KLIA). It has consistently scored high marks as one of the most impressive airport in the world.

From KLIA there are several ways to get into KL. The newest way is by rail via the Express Rail Link. It takes you from the airport to the central rail hub in KL named, appropriately, KL Sentral. (Fare: RM35, one-way). It takes 28 minutes. From Sentral you can catch the Putra line of the Light Rail Transport (LRT) to Crown Princess hotel (Ampang Park station - fare less than RM3) if you are traveling light. Or you can catch a taxi - insist that the driver use the meter.

Another good way is to catch an Airport Express coach. You will have to walk a bit. Follow the signs to the bus station (down on street level). The ticket counter is located there - buy a ticket for Jalan Duta station and ask for transfer to hotel. It takes about an hour to the Jalan Duta station; from there a small coach will bring you directly to the hotel. The fare at the time of writing is RM25.

If you are rich (or feeling rich) or if you are traveling in a group you might take an airport taxi (limousine). There are two classes of service - budget car costs about RM60-70, luxury approximately RM100. Buy pre-paid coupons only at counters

situated at the exit from customs. Do not hire taxis from people hanging around the lobby as they are not authorized to do so and you may land up with a larger bill than necessary.

### **Things to do**

Of course the main reason for you to be in KL is to attend the congress. However, we hope that you will also have an opportunity to look around KL. A good place to start is to look for information in the Internet.

The Crown Princess Hotel is conveniently situated for you to explore KL by yourself. The Putra LRT line's Ampang Park station is situated just across the road from the hotel. Using the LRT line you can proceed to the town center (Pasar Seni station) where you visit bustling Chinatown, Central Market and the surrounding shopping areas. Get down Masjid Jamek station and you are in the Indian section of town and old major shopping center.

One stop towards town is KLCC (Kuala Lumpur City Center). Besides being the site of the Twin Towers, the lower levels contain a large shopping center plus a lovely park, and the area has a busy nightlife. Another place that hops both during the night and day is the Bukit Bintang area. It is the site of several shopping centers and at night is especially crowded with throngs of people hanging around the many sidewalk cafes and restaurants. Up market is the Bukit Bintang street itself. Just one street away is Jalan Alor, which is the haven for great local food at inexpensive prices. The Crown Princess provides a regular shuttle bus to Bukit Bintang for their clients.

Malaysia is a shopping paradise. All the above areas contain major shopping centers catering to all tastes and budgets. There is good variety and prices are competitive. So bring plenty of money (or your credit card) and an extra empty bag.

Further afield, day trips are for those who wish to go to historical Malacca (1? hours by road). Or one go take a trip to Genting Highlands (about 1 hour) where you will ride Southeast Asia's longest cable car system to an entertainment and theme park complex up in the clouds at over 5,000 ft above sea level. If you wish you could try your luck at the only casino in Malaysia.

For another type of night entertainment, one can make an evening trip to Kuala Selangor, near the sea about an hour's drive form KL, on a firefly watching expedition up the Selangor River. Imagine

hundreds of thousands of fireflies settling on particular species of mangrove trees, and all of them flashing continuously. The effect is that the whole trees light and flash! One has to see it to appreciate it. Add a sumptuous dinner of the freshest sea ever at a nearby restaurant and that makes a perfect evening.

We will have tour desk to help you make tour arrangements including post conference trips further out of KL. Meanwhile more information about Malaysian attractions can be obtained at <http://www.malaysiamydestination.com/>

### Traveling around town

There are various ways to get around KL:

1. Buses - you'll get frustrated.
2. Taxis- relatively inexpensive compared to most countries especially if there are more than two passengers sharing a cab. Insist that the driver use the meter.
3. Light Rail Transport:  
Light rail network consists of:
  - Putra Line
  - STAR line
  - Monorail (scheduled start of operation: July, 2002)
  - KTM Commuter Trains.

The LRT is a good mode of transport to get around town in ones or twos without getting hopelessly lost. A map of the LRT system in KL is found at: <http://www.monorail.com.my/klms/stations/imap.htm>

### Accommodation

The Crown Princess has been chosen as the conference hotel and the rates are very reasonable for the class of service. There are supermarkets, banks, restaurants, nearby and transport is convenient. If you wish to book yourself at the special rates for FAOPS participants, it is best to contact the hotel directly by e-mail [sitiorlida@fhikl.com.my](mailto:sitiorlida@fhikl.com.my) or by fax: (603) 2162 4492 (Attention Siti Norlida). Or you can book through the FAOPS secretariat. (Consult the 2<sup>nd</sup> announcement).

Other hotels listed in the 2<sup>nd</sup> announcement are in Chinatown. They include Hotel Malaya, Swiss Inn and Chinatown Inn. The Chinatown area is bustling day and night: the whole area is one big shopping area, just hang on to your wallet and purse and be prepared to haggle. The Central Market (handicraft shopping center) is next to Chinatown.

Chinese food is of course centered in the Chinatown area. There are many Muslim restaurants around Central market.

With the opening of the monorail system, one can also stay in the Bukit Bintang area where there are a number of very reasonable budget hotels as well as 5 star establishments. From Bukit Bintang station one can take the monorail to where it links with the Putra Line and from there take the train to Ampang Park station. All of the hotels listed below start at less than RM100 for single or double room and are situated within walking distance of the nearest monorail station, shopping and food. Those with websites or e-mail are listed below:

Agora hotel: <http://www.agorahotel.net/>

Nova hotel: <http://www.novahtl.com/room.htm>

Comfort Inn: [hotelcomfort.com / comfortinn@pd.jaring.my](http://hotelcomfort.com/comfortinn@pd.jaring.my)

Sungei Wang Hotel: [swhtml@tm.net.my](mailto:swhtml@tm.net.my)

Of course the YMCA is always a good place to look for inexpensive accommodation. The KL YMCA is conveniently situated within walking distance of the Sentral station. The surroundings are somewhat quieter than Bukit Bintang and Chinatown but then the other parts of town can be accessed easily by LRT or taxi. The YMCA hotel can be directly contacted by e-mail at [hostel@ymcakl.com](mailto:hostel@ymcakl.com) or by tel/fax : 603-2274 1439/603-2274 0559.

A good web site to look at for those looking for less expensive accommodation is: <http://www.budgethotel.com.my/search.asp>

### Food

There is no problem about food. You can find it in all forms: local and foreign, at all budget levels, suitable for all dietary requirements, Muslims, non-Muslims, vegetarians at some places 24 hours a day. Just enjoy.



# MEETING CALENDAR

## ENDO 2002

San Francisco, USA

June 19-22, 2002

Contact: The Endocrine Society  
4350 East West Highway, Suite 500  
Bethesda, MD 20814-4426, USA  
Tel: +1-301-941-0200  
Fax: +1-301-941-0259  
Email: [endostaff@endo-society.org](mailto:endostaff@endo-society.org)  
Web: [www.endo-society.org](http://www.endo-society.org)

## 4<sup>th</sup> International Congress Pathophysiology

Budapest, Hungary

June 29-July 5, 2002

Contact: Prof. Lajos G. Szollar  
Secretary General of the Congress  
Institute of Pathophysiology  
Semmelweis University Medical School  
H-1089 Budapest  
Nagyvarad ter 4, Hungary  
Tel/Fax: +36-1-210-4409  
Email: [szollaj@net.sote.hu](mailto:szollaj@net.sote.hu)  
Web: <http://isp2002.sote.hu>

## 6<sup>th</sup> International Congress on Cell Biology of Reproduction

Cambridge, UK

July 4-6, 2002

Contact: Congress Secretariat  
P.O. Box 3219  
Barnes, London, SW13 9XR, UK  
Tel: +44-020-8741-1311  
Fax: +44-020-8741-0611  
Email: [meetings@obgyn.cam.ac.uk](mailto:meetings@obgyn.cam.ac.uk)  
Web: [www.obgyn.cam.ac.uk/meetings.htm](http://www.obgyn.cam.ac.uk/meetings.htm)

## The European Atherosclerosis Society Congress

Salzburg, Austria

July 7-10, 2002

Contact: 73<sup>rd</sup> EAS Congress  
c/o Kenes International,  
PO Box 500006  
Tel Aviv 61500, Israel  
Tel: +972-3-5140018/9  
Fax: +972-3-5140093  
Email: [73eas@kenes.com](mailto:73eas@kenes.com)  
Web: <http://www.kenes.com/73eas>

## XIV<sup>th</sup> World Congress of Pharmacology

San Francisco, California, USA

July 7-12, 2002

Contact: Congress Secretariat  
XIV<sup>th</sup> World Congress of Pharmacology  
9650 Rockville Pike  
Bethesda, MD 20814-3995, USA  
Fax: +1-301-530-7061  
Email: [iuphar@aspet.faseb.org](mailto:iuphar@aspet.faseb.org)  
Web: <http://www.IUPHAR2002.org>

## Enteric Nervous System 2003

Banff, Alberta, Canada

July 9-14, 2002

Contact: Prof. Keith Sharkey  
Department of Physiology and  
Biophysics  
University of Calgary  
3330 Hospital Drive NW  
Calgary, Alberta, Canada T2N 4N1  
Tel: +1-403-220-4601  
Email: [ksharkey@ucalgary.ca](mailto:ksharkey@ucalgary.ca)  
Web: <http://www.med.ucalgary.ca/webs/ENS>

**Sixth International Symposium on the Neurobiology and Neuroendocrinology of Aging**

Bregenz, Austria

July 21-26, 2002

Contact: Richard Falvo or Andrzej Bartke

Department of Physiology, LS II,  
Room 245, Southern Illinois University  
School of Medicine

Carbondale, IL 62901-6512, USA

Fax: +1-618-453-1517

Email: [abartke@siumed.edu](mailto:abartke@siumed.edu) or

[rfalvo@siumed.edu](mailto:rfalvo@siumed.edu)

Web: <http://www.neurobiology-and-neuroendocrinology-of-aging.org>

University of Nottingham NG7 2UH, UK

Email: [bruce.campbell@nottingham.ac.uk](mailto:bruce.campbell@nottingham.ac.uk)

Web: [www.ssf.org.uk](http://www.ssf.org.uk)

**16<sup>th</sup> Symposium of the Protein Society**

San Diego, CA, USA

August 17-21, 2002

Contact: The Protein Society Symposium Office

9650 Rockville Pike

Bethesda, MD 20814-3998, USA

Tel: +1-301-530-7010

Fax: +1-301-530-7014

Email: [prot02mtg@faseb.org](mailto:prot02mtg@faseb.org)

Web: [www.faseb.org/meetings/protein02/](http://www.faseb.org/meetings/protein02/)

**15<sup>th</sup> International Congress on Animal Reproduction**

Salvador, Brazil

August 8-12, 2002

Contact: Brazilian College of Animal Reproduction

Alameda das Princesas

1275 31275-180

Belo Horizonte-MG, Brazil

Tel: +55-31-491-7122

Fax: +55-31-491-7025

Email: [cbra@cbra.org.br](mailto:cbra@cbra.org.br)

Web: [www.cbra.org.br](http://www.cbra.org.br)

**2002 AWCBR, 20<sup>th</sup> Anniversary Meeting**

The 20<sup>th</sup> International Australian Winter Conference  
on Brain Research

Queenstown, New Zealand

August 24-28, 2002

Contact: Alison R. Mercer

AWCBR Publicity Officer

Email: [alison.mercer@stonebow.otago.ac.nz](mailto:alison.mercer@stonebow.otago.ac.nz)

Web: [www.awcbr.org](http://www.awcbr.org)

**10<sup>th</sup> International Conference on Na,K-ATPase and Related Cation Pumps**

Elsinore, Denmark

August 8-14, 2002

Contact: Copenhagen University, Denmark

Web: <http://www.aki.ku.dk/ATPase2002>

**2002 APS Conference on The Power of Comparative Physiology: Evolution, Integration, and Application**

San Diego, CA, USA

August 24-28, 2002

Contact: The American Physiological Society

9650 Rockville Pike

Bethesda, MD 20814, USA

Tel: +1-301-530-7171

Fax: +1-301-571-8313

Email: [meetings@the-aps.org](mailto:meetings@the-aps.org)

Web: [http://www.the-aps.org/meetings/aps/san\\_diego/home.htm](http://www.the-aps.org/meetings/aps/san_diego/home.htm)

**Sixth International Symposium on Reproduction in Domestic Ruminants**

Scotland, UK

August 14-17, 2002

Contact: Dr. Bruce Campbell

School of Human Development

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(Continued on page 8)

# Physiology Teaching

## Physiology Teaching in Thailand: current status

*Chumpol Pholpramool: Department of Physiology, Faculty of Science, Mahidol University*

Recently the Physiological Society of Thailand (PST) made a survey on teaching in physiology at university undergraduate level using questionnaires. Among the twentyfour government universities and over ten private universities in Thailand about one half involves in teaching physiology either as a separate course or integrated with other related disciplines. Results of the study are summarized here to reflect our current status. Future trends are also discussed at the end of this report.

### Course organization

About 60% of the 'physiology' courses are taught separately. Others are integrated with the related disciplines such as anatomy, biochemistry, pharmacology, neurology etc. The length of the course varies from 1 to 8 credit hours with or without laboratory sessions.

### Teaching methods

Due to marked differences in the class size in various institutions a variety of teaching methods has been used. However, the majority is lecture-based type. Only 18% adopt a problem based learning (PBL) approach. Unfortunately, comparison of the outcome between conventional teaching and PBL has not been systematically made. It would be too premature to reach any conclusion.

For the courses with practical sessions, about 88% still provide an opportunity for students to have hand-on experiences. However, the number of laboratory sessions is limited by the class size and supporting facilities, which vary from place to place.

### Teaching media

In spite of the excellent IT facilities in many institutions and the cost of computer is currently not too high, most teachers still prefer transparencies to computer presentations for their lectures. The main reason is probably that the former is more reliable. Technical problems could occur at anytime with the computer and projector ranging from mismatched softwares, and connection or electrical failure. Slides are also used in 50% of the course whereas the use of CAI is even less being 37% in all.

### Student assessment

Performances of students in the course are primarily evaluated from written examinations. Unfortunately, there are no data regarding the nature of exam questions. Other types of assessment include practical tests, reports, class attendances, conferences, and presentations in the class.

### Teacher number and qualification

Recent analysis by the Thai Ministry of University Affairs (MUA) revealed a frightening shortage of academics in many disciplines of sciences and technology including physiology. This is supported by the survey recently made by PST (Table 1 and 2). Of the 24 government universities there are 12 departments of physiology. The number of academic staff ranges from 6 to 21 with an average number of 12 individuals. Attempts have been made by MUA to solve the problem by providing scholarships for further studies overseas up to Ph.D. degree and to improve the local graduate program in physiology.

## MEETING CALENDAR

*(From page 6)***22<sup>nd</sup> Meeting of the European Society for Micro-circulation**

Devon, UK

August 28-30, 2002

Contact: Hampton Medical Conferences Ltd

127 High Street, Teddington

Middlesex, TW11 8HH, UK

Email: [esm@hamptonmedical.com](mailto:esm@hamptonmedical.com)Web: [www.medizin.fu-berlin.de/esm](http://www.medizin.fu-berlin.de/esm)**5<sup>th</sup> International Congress of Neuroendocrinology**

Bristol, UK

August 31- September 4, 2002

Contact: Helen Gregson or Victoria Withy

BioScientifica Ltd

16 The Courtyard, Woodlands

Bradley Stoke

Bristol BS32 4NQ, UK

Tel: +44-0-1454-619347

Fax: +44-0-1454-616071

Email: [ICN2002@endocrinology.org](mailto:ICN2002@endocrinology.org)Web: [www.bioscientifica.com/icn2002.htm](http://www.bioscientifica.com/icn2002.htm)**56<sup>th</sup> Annual Meeting and Symposium of the Society of General Physiologists on "Trafficking of Transporters"**

Woods Hole, MA, USA

September 4-8, 2002

Contact: Society of General Physiologists

Tel: +1-508-540-6719

Fax: +1-508-540-0155

Email: [sgp@mbl.edu](mailto:sgp@mbl.edu)Web: <http://www.spgweb.org>**4<sup>th</sup> World Congress on Stress**

Edinburgh, Scotland

September 12-15, 2002

Contact: Northern Networking Ltd.

Congress Central Office

813 South Street

Glasgow G14 0BX, Scotland, UK

Tel: +440-141-954-4441

Fax: +440-141-954-2656

Email: [stress@glasconf.demon.co.uk](mailto:stress@glasconf.demon.co.uk)Web: <http://www.stressconf.co.uk/>*(Continued on page 10)***Physiology Teaching***(From page 7)***Table 1.** Numbers of physiology teachers by degree

Number	M.D-Ph.D.	Ph.D.	MD/DD/DVM	M.Sc.	B.Sc.*	Total
person	8	62	32	69	3	174
%	4.6	35.6	18.3	39.7	1.7	100

\*Teachers with this degree are expected to get scholarships for further studies.

**Table 2.** Numbers of physiology teachers by academic rank

Number	Professor	Associate Professor	Assistant Professor	Lecturer
person	5	36	53	80
%	2.9	20.7	30.5	46.0

**Future trends**

According to the new Constitution of the Thai Kingdom, educational reform at all levels must be implemented by the year 2002. The main issue of the reform is to change from teacher-centered to student-centered education. This would be a driving force for all institutions to revise their curricular, teaching methods and environment. Many leading universities are now revising their medical curricular and teaching approaches. It remains to be seen whether such a move is successful.

## News from Societies

### Myanmar Medical Association

The Physiology and Biochemistry Section of Myanmar Medical Association has applied for an Associate Member of IUPS and been approved for the membership by the General Assembly in Christchurch, New Zealand since August 2001.

Assist. Prof. Dr. Chuangchan Chaitachawong

### The Physiological Society of Sri Lanka (PSSL)

New office bearers of PSSL for 2001-2002 were elected at the annual general meeting in Colombo on 27 October 2001. They were:

President	Prof. Susirith Mendis
Secretary	Dr. K.G. Somasiri
Vice President	Dr. Laal Jayakody
Assistant Secretary	Dr. Sherine Fernando
Editor	Dr. Vajira Weerasinghe
Treasurer	Dr. Siva Selliah
Committee members	Prof. V. Basnayeke Prof. C. Fonseka Prof. M. Udupihille
Ex. Officio	Prof. Kamani Tennekoon Dr. Mangala Gunatilake

### The Physiological Society of Thailand (PST)

PST held its 31<sup>st</sup> annual meeting in Petchburi during 8-10 May 2002. The theme of the meet was "Role of Physiology in Therapeutic Aspects", which highlighted the significance of molecular and system physiology in drug designs and drug delivery systems. New Executive Committee was also elected for 2002-2004. The members are:

President:	Assoc. Prof. Dr. Supornpim Chearskul
Secretary-General:	Assoc. Prof. Dr. Supatra Lohsiriwat
Treasurer:	Dr. Choosri Sribhen
Registrar:	Assist. Prof. Dr. Roongtawan Supabphol
Members:	Prof. Dr. Chaivat Toskulkao Assoc. Prof. Dr. Prakong Tangpraputgul Assoc. Prof. Dr. Sanya Roysommuti Assist. Prof. Dr. Chucheep Praputpittaya

### 79<sup>th</sup> Annual Meeting of Japanese Physiological Society held at Hiroshima

By Issei Seyama, Hiroshima University.

Annual meeting was held in the campus of Hiroshima woman's college from 28<sup>th</sup> to 30<sup>th</sup> March, 2002.

We set the following principles to galvanize this meeting,

1) Chances for presenting their works should be offered as much as possible to young scientists who actually carried out the experiments. By so doing, we hoped they are actively involved in scientific discussion and its construction. In the oral presentation, we categorized some presentations intimately related each other into 7 workshops, in order to facilitate the exchange of their views. In each section, chair persons were asked to give a brief speech to guide the audience at the beginning.

2) Three invited lectures were selected from the disciplines which are anticipated to actively contribute to Physiology in the near future. The title and speaker were as followed in succession,

"The development of organ tissues from amphibian stem cells" by Prof. Asajima (Tokyo Univ.),

"How the genome project can contribute to medicine" by Prof. Sakaki (Tokyo Univ.) and

"Structural characteristic of ion channels" by Prof. Fujiyoshi (Kyoto Univ.).

3) All oral presentations were requested to be through PC projector, in order to expand the ways of presentations.

We had 354 oral and 543 poster presentations, together with 3 invited lectures and 23 symposia. Total number of registered attendants reached to 1696, including 5 from abroad. In a satellite symposium for environmental physiology on 27<sup>th</sup> March, 130 people came together. All registrations were made electronically through the internet. Meeting information was made public on the web site in both Japanese and English.

(Continued on page 11)

**European Respiratory Society (ERS) Annual Congress**

Stockholm, Sweden

September 14-18, 2002

Contact: ERS Headquarters

1 boulevard de Grancy

CH-1006 Lausanne

Tel: +41-21-613-0202

Fax: +41-21-617-2865

Email: [info@ersnet.org](mailto:info@ersnet.org)Web: <http://www.ersnet.org>**Physiome 2002 – 70<sup>eme</sup> Reunion De La Societe De Physiologie**

L'Hotel Gouverneur de Sainte-Foy, Quebec, Canada

September 18-20, 2002

Contact: Dr. E. Rousseau

Department de Physiologie et Biophysique

Faculte de Medecine,

Universite de Sherbrooke

J1H 5N4 Sherbrooke, QC, Canada

Tel: +819-564-5306

Fax: +819-564-5399

Email: [erouss01@courrier.usherb.ca](mailto:erouss01@courrier.usherb.ca)Web: <http://physiome2002.chus.qc.ca>**24<sup>th</sup> Annual Meeting of the American Society for Bone and Mineral Research**

San Antonio, TX, USA

September 20-24, 2002

Contact: ASBMR

2025 M St., NW, Suite 800,

Washington, D.C. 20036-3309, USA

Tel: +1-202-367-1161

Fax: +1-202-367-2161

Email: [asbmr@dc.sba.com](mailto:asbmr@dc.sba.com)Web: <http://www.asbmr.org>**3<sup>rd</sup> World Chinese Congress of Digestology**

China

September 23-25, 2002

Contact: Lian-Sheng Ma

President of WCCD

P.O. Box 2345

Beijing 100230, China

Fax: +86-6-589-1893

Email: [wcjd@public.bta.net.cn](mailto:wcjd@public.bta.net.cn)**5<sup>th</sup> FAOPS Congress**

Kuala Lumpur, Malaysia

September 23-26, 2002

Contact: Ms. Gowri

UMMCed

Level 3, Block C

Institute of Postgraduate Studies

University of Malaya

50603 Kuala Lumpur, Malaysia

Tel: +60-3-76257984

Fax: +60-3-76257884

Email: [a12dora@umcsd.um.edu.my](mailto:a12dora@umcsd.um.edu.my)Web: [www.um.edu.my/conf/FAOPS/index.html](http://www.um.edu.my/conf/FAOPS/index.html)[www.geocities.com/mspp.geo/faops](http://www.geocities.com/mspp.geo/faops)**3<sup>rd</sup> FAONS Congress**

Seoul, Korea

September 29- October 2, 2002

Contact: Yoo-Hun Suh

President, Congress Organizing  
Committee

Tel: +82-2-7408292

Fax: +82-2-7408292

Email: [yhsuh@plaza.snu.ac.kr](mailto:yhsuh@plaza.snu.ac.kr)Web: [www.faons.org.au](http://www.faons.org.au)**STADY III – International Symposium on Signal Transduction in Health and Disease**

Tel Aviv, Israel

October 1-4, 2002

Contact: Prof. Zvi Naor

Department of Biochemistry

Tel Aviv University

Ramat Aviv 69978, Israel

Tel: +972-3-640-9032 or

+972-3-641-7057

Fax: +972-3-6406834

Email: [Naorzvi@post.tau.ac.il](mailto:Naorzvi@post.tau.ac.il) or[Stady2002@unitours.co.il](mailto:Stady2002@unitours.co.il)**3<sup>rd</sup> Biennial Meeting on Germ Cells**Cold Spring Harbor Laboratory, Long Island,  
NY, USA

October 9-13, 2002

Contact: Cold Spring Harbor Laboratory Meetings  
and Courses Programs

1 Bungtown Road  
Cold Spring Harbor, NY 11724, USA  
Tel: +1-516-367-8346  
Fax: +1-516-367-8845  
Email: [meetings@cshl.org](mailto:meetings@cshl.org)  
Web: <http://www.cshl.org/meetings>

**58<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine**

Seattle, Washington, USA  
October 12-17, 2002  
Contact: American Society for Reproductive Medicine  
1209 Montgomery Highway  
Birmingham, Alabama 35216-2809 USA  
Tel: +1-205-978-5000  
Fax: +1-205-978-5005  
Email: [asrm@asrm.org](mailto:asrm@asrm.org)  
Web: [www.asrm.org](http://www.asrm.org)

**52<sup>nd</sup> Annual Meeting of the American Society of Human Genetics**

Baltimore, MD, USA  
October 15-19, 2002  
Contact: Marsha Ryan  
Tel: +1-301-571-1825  
Email: [mryan@ashg.org](mailto:mryan@ashg.org)  
Web: <http://www.ashg.org/genetics/ashg/2002meeting/index.html>

**4<sup>th</sup> HUGO Pacific Meeting and 5<sup>th</sup> Asia-Pacific Conference on Human Genetics**

Pattaya (Chonburi), Thailand  
October 27-30, 2002  
Contact: Institute of Science and Technology for Research and Development  
Mahidol University, Salaya Campus  
25/25 Phutthamonthon 4<sup>th</sup> Road  
Salaya, Phutthamonthon  
Nakornpathom 73170, Thailand  
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+66-02-889-2558  
Fax: +66-02-889-2559,  
+66-02-441-1013  
Email: [grsfc@mahidol.ac.th](mailto:grsfc@mahidol.ac.th)  
Web: [www.mu-st.net/hugothai](http://www.mu-st.net/hugothai)

**2002 ICLAS Regional Scientific Meeting**

Bangkok, Thailand  
November 20-22, 2002  
Contact: Dr. Wantanee Ratanasak  
National Laboratory Animal Centre  
Mahidol University  
25/25 Buddhamonthon 4 road  
Salaya, Nakorn Pathom 73170, Thailand  
Tel: +66-02-441-9832  
Fax: +66-02-441-0253  
Email: [directac@mahidol.ac.th](mailto:directac@mahidol.ac.th)

**42<sup>nd</sup> Annual Meeting of the American Society for Cell Biology**

San Francisco, CA, USA  
December 14-18, 2002  
Contact: ASCB  
Tel: +1-301-347-9300  
Web: [www.ascb.org/meetings/am2002/main02mtg.htm](http://www.ascb.org/meetings/am2002/main02mtg.htm)

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*News from Societies*  
(From page 9)

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Three plenary lectures stirred up much excitement among attendants. After lectures, many people hoped to have an additional discussion time, proposing them to carry out joint experiments. For example, many groups were interested in preparations introduced by Prof. Asajima, because he can develop and cultivate heart and retina from a single cell in the test tube and resultant tissues are suitable to test when and how heart starts to beat and photo-receptor begins to sense.

One symposium, in which Prof. Matsuo took his students from Kinki Univ. (Osaka) for demonstrating his way to conduct tutorial education, drew much attention, because in Japan remodeling of medical education system is in progress. After attendants actually saw and heard the learning process on bleeding and shock, there were many constructive proposals and criticisms from audience.

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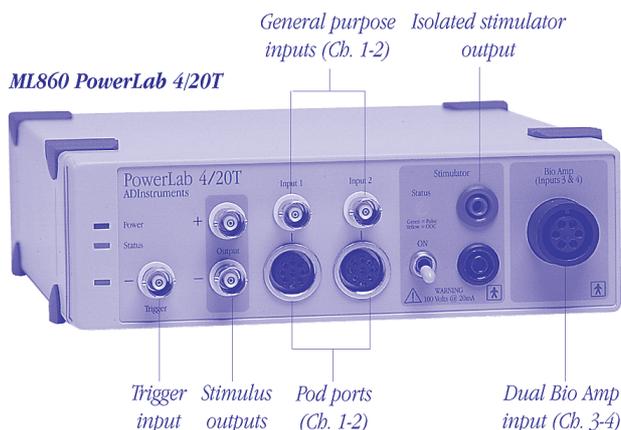
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- Blood pressure
- ECG and heart sounds
- Respiratory studies
- Nerve conduction studies
- Evoked responses
- Isolated nerve recordings
- Galvanic skin response



ADInstruments will be sponsoring the Teaching Workshop held in conjunction with the 5th FAOPS Scientific Congress 2002, in collaboration with the Annual Meeting of the Malaysian Society for Pharmacology & Physiology. 23-26 September, 2002.

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### Offices and Distributors in Asia and Australia:

#### Australia

ADInstruments Pty Ltd  
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#### Vietnam

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#### Taiwan

Kuo Yang Scientific Corp  
Tel: +886 2 2219 6600  
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#### Thailand

Labquip (T) Co.  
Tel: +66 2 719 7350  
michael@labquipasia.com

#### Philippines

Sicaf Scientific Inc.  
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sicaf@mnl.sequel.net

#### Indonesia

PT. Labquip Indonesia  
Tel: +62 21 531 0524  
handi@labquipasia.com

International web site: [www.ADInstruments.com](http://www.ADInstruments.com)



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EDITORIAL OFFICE: Chumpol Pholpramool, Department of Physiology, Faculty of Science,  
Mahidol University, Rama VI Road, Bangkok 10400, Thailand.

Tel: 66-2-2015513 Fax: 66-2-2461375, 66-2-6445420, E-mail: [sccpp@mucc.mahidol.ac.th](mailto:sccpp@mucc.mahidol.ac.th)