

## Report

### ISN/APSN/IBRO School, 16-21 June 2008

**School of Pharmacy, Fudan University, No. 130 Dong'an Road,  
Student Lab, Level 1, Building No. 5 (West Campus),  
Shanghai 200032, China**

- Host – Dean and HOS school of Pharmacy, Prof Yizhun Zhu
  
- Teachers/RAs:
  - Dr Yizhun Zhu (MCAO)
  - Mr Qihai Gong (MCAO)
  - Ms Stephy Loh (MCAO/ICC)
  - Dr Alfreda Stadlin (Brain Dissection, Western blot/ICC)
  - Dr Peter Dodd (Real-time RT-PCR)
  - Dr Xuemei Zhang (Real-time RT-PCR)
  - Dr Qian Wang (Real-time RT-PCR)
  - Dr Wei Guo (Western blot)
  - Ms Heung-Ling Choi (Western blot)
  - Dr Liu Xinhua (ICC)
  - Dr Hongbo Wang (ICC)
  - Dr Hong Xin (Hoechst staining)
  - Dr Ping Yang (LC-MS)
  - Dr Jianying Liang (HPLC)
  - Dr Roger Butterworth (Talk preparation)
  
- Funding Received: \$20,000 ISN (\$16,000 paid), \$12,000 IBRO (paid), APSN (sponsor the registration fee difference (\$50/school attendees) for APSN meeting)
  
- Accommodation, food and transportation from airport organized by Fudan Univ. – they were very efficient and provided excellent support
  
- Selection panel (Roger Butterworth – ISN; YS Chan – IBRO; Yizhun Zhu – Fudan Univ; Alfreda Stadlin – APSN Chair)
  
- Total no. of students selected (33 students):
  
- No. of student attended (27 students):
  - Students with visa problems – Bangladesh, Pakistan, 2 Indian students
  - No show – UK, 1 from China

NAME	INSTITUTION	CITY	COUNTRY
Wenlei Jiang	University of Montreal	Montreal	Canada
Xiaodong Ge	Guangxi Medical University	Nanning	China
Xiaohua Jiang	Capital Medical University	Beijing	China
Bingfang Liu	Capital Medical University	Beijing	China
Wei Wang	The Fourth Military Medical University	Xi'an	China
Yuyun Xiong	Jiangsu University School of Pharmacy	Zhenjiang	China
Dongxu Zhai	Harbin Medical University	Harbin	China
Jinglin Zhang	Capital Medical University	Beijing	China
Yunqui Zhu	Shanxi Medical University	Taiyuan	China
Sherin Antony	Cochin University of Science & Technology	Cochin	China
Ramakrishna Devaki	Kamineni Institute of Medical Sciences	Nalgonda	India
Sirsendu Jana	Institute of Postgraduate Medical Education & Res	Kolkata	India
Mahesh Kaushik	All India Institute of Medical Sciences	New Delhi	India
Anil Kumar	Panjab University	Chandigarh	India
Ramesh Kumar	University of Madras	Tamilnadu	India
Amit Nayak	Central India Institute of Medical Sciences	Nagpur	India
Kapil Saxena	Jiwaji University	Gwalior	India
Barsha Sen	Manovikas Kendra Rehab & Res Inst for Handicapped	Kolkata	India
Ambili Thoppuvalappil	Indian Institute of Chemical Biology	Kolkata	India
Woong-Ki Choi	The Catholic University of Korea	Seoul	Korea
Hye-Young Joung	The Catholic University of Korea	Seoul	Korea
Eun-Yee Jung	The Catholic University of Korea	Seoul	Korea
Printha Kentheeswaran	University of Sri Jayewardenepura	Nugegoda	Thailand
Szeifoul	Mahidol University	Nakorn Pathom	Thailand
Kittikun Viwatpinyo	Faculty of Science at Mahidol University	Bangkok	Thailand
Wilailan Wisessmith	Mahidol University	Nakorn Pathom	Thailand
Prapimpun Wongchitrat	Srinakharinwirot University	Bangkok	Thailand



- Techniques offered (in order of popularity):
  - Middle Cerebral Artery Occlusion Model – whole class
  - Brain dissection – whole class
  - Real time RT-PCR (22)
  - Western Blot (17)
  - Immunocytochemistry (10)
  - HPLC (7)
  - Hoechst (5)
  - LC-MS (5)
  
- Students prioritized techniques during applications; the 1<sup>st</sup> 2 choices were given. Students were split into 2 groups and labs ran in repeated fashion so students rotate into their second technique mid-week.
  
- Technique lectures were given at the start of each day prior to lab classes
  - MCAO – Dr Yizhun Zhu
  - Real time RT-PCR; PCR – Peter Dodd
  - Western Blot, ICC – Alfreda Stadlin
  - HPLC/LC-MS – Roger Butterworth
  - Hoechst/TUNEL – Peter Dodd & Alfreda Stadlin
  
- Each lab had teachers and a research assistant to assist in lab work to provide constant interaction with students. Students have hands-on experience for each technique taught.
  
- Wed afternoon – Roger Butterworth gave a talk on how to prepare 10 min talk, poster & CV
  
- Students prepared 10-min group presentations on Friday afternoon – students were grouped into 6 groups based on the 6 hands-on techniques they participated in and worked as a group to prepare PowerPoint presentations. One student from each group was selected at random to give the talk at the start of presentation. The whole group participated in the 5-10 min question time.
  
- Students were presented with a certificate for completion of ISN/APSN/IBRO school
  
- Wrap up dinner at Pearl of Orient on Friday evening – Sponsored by Pharmaceutical company (organized by Dr Yizhun Zhu)
  
- Students were given a questionnaire at the end to obtain feedback (brief summary):
  - Lab Ratings (1-5 Likert scale; 1=poor to 5=excellent):
    - MCAO demonstration – 4.2
    - Brain dissection – 4.3
    - Real time RT-PCR – 3.4
    - Western Blot – 4.4
    - ICC – 4.4
    - Hoechst – 4.1
    - HPLC – 4.8
    - LC-MS – 3.8

- Sample comments for future schools:
  - Most students want more hands-on techniques
  - More research lectures
  - More time on each experiment
  - Data analysis
  - Primer design
  - Research design
  
- Lecture Ratings:
  - MCAO – 4.1
  - Real-time RT-PCR – 4.5
  - PCR – 4.4
  - Ischemia/stroke-apoptosis – 4.2
  - HPLC – 4.2
  - Preparing a 10-min talk – 4.6
  - Preparing CV – 4.3
  - Western blot/ICC (inadvertently left out)
  
- General comments:
  - Very good to excellent (above 4); informative and useful, phenomenal; more lectures on basic techniques
  - How to prepare 10 min talk very useful, e.g. could be longer and included samples
  
- Students were very appreciative of accommodation, food & travel arrangements organized by Fudan University.