# The 2nd Asia-Pacific NMR Symposium

October 12-14, 2007



http://apnmr2007.life.nthu.edu.tw/

# **Symposium Venue**

Lakeshore Hotel, Hsinchu, Taiwan

### Organized by

Taiwan Magnetic Resonance Society National Tsing Hua University, Taiwan

# Sponsored by

National Science Council, Taiwan Ministry of Education. Taiwan Academia Sinica, Taiwan



### Dear colleagues:

On behalf of the organizing committee, I have the honor and great pleasure to welcome you to the 2nd Asia-Pacific NMR Symposium (APNMR) that is held from Oct. 12 to 14, 2007, at Hsinchu, Taiwan. The purpose of this symposium is to make a deliberate effort to determine trends and concerns in NMR studies and provide an integrated information exchange. This conference will concentrate on all promising areas of NMR studies including (1) Solution NMR, (2) Solid State NMR, (3) NMR Imaging and (4) Complementarity of NMR & X-ray crystallography. In this symposium, there are 97 presentations, including 40 oral presentations and 57 posters. The contributed papers are as follows: 6 from Australia, 3 from Canada, 1 from Germany, 22 from Japan, 23 from Korea, 9 from mainland China, 2 from Netherlands, 1 from Singapore, 20 from Taiwan, 3 from UK, and 7 from USA.

I hope this symposium at Lakeshore Resort Hotel in Hsinchu can produce a rich exchange of ideas and provide new research directions for NMR researchers. Finally, I wish you a successful and rewarding meeting.



Ping-Chiang Lyu
Conference Chair, the 2nd Asia-Pacific NMR Symposium

# Conference Organizations

### **Scientific Program**

The scientific program will last for two and half days. The programs include: 6 plenary lectures (40 minutes) and 4 special lectures (35 minutes) of each to high light the important development in various areas; four parallel sessions with a total of 18 invited lectures (25 minutes each) and 12 oral presentations (15 minutes each), selected from poster abstracts; and two poster sessions. There will be a special session about complementarity of NMR and X-ray crystallography supported by National Synchrotron Radiation Research Center (NSRRC), Taiwan on Saturday afternoon.

#### **ORGANIZERS**

#### INTERNATIONAL ADVISORY BOARD

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Masatsune Kainosho (Tokyo MetropolitanUniversity, Japan)

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### **Local Organization Committee Members**

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Shan-Ho Chou (National Chung-Hsin University)

Lian-Ping Hwang (National Taiwan University)

Lou-Sing Kan (Academia Sinica)

Shan-Bin Liu (Academia Sinica)

Chin Yu (National Tsing Hua University)

Wen-Guey Wu (National Tsing Hua University)

# **General Information**

### **Scientific Program**

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### **Speakers**

All speakers should offer the appropriate time (at least 3-5 min) for discussion. Presenters should come to **PC registration desk** to check your slide before your presentation starts.

#### **Posters**

All posters will be allocated a space of 145 cm wide by 85 cm high. The poster exhibition will be held in Lakeshore Hotel (Poster area, page I-6). The poster number is stated in this program booklet. Posters should be mounted before 17:00 on 12 October. All posters will be displayed two days during the symposium. All posters must be removed by 10:00 of October 14th. Poster presenters are requested to explain your posters in the following duty time.



October 12 (Fri)	18:50 – 20:30	Poster session
October 13 (Sat)	17:00 – 18:20	Poster session

### **Special Events**

October 13th 19:00 – 21:00 Conference Banquet (Lakeshore Hotel)



### Taiwan High Speed Rail - Hsinchu

### **Transportation to 16th ISMAR**:

Transportation fee (2007.10.14) from Lakeshore Hotel to Howard Beach Resort Kenting is NT\$1,500 (a lunch box included). For your convenience, shuttle buses will be provided from Lakeshore Hotel to Taiwan High Speed Rail (THSR) Hsinchu Station and from THSR Zuoying Station to Howard Beach Resort Kenting.

- Please purchase your ticket in registration desk before 1:30 pm, Oct.
   (Sat).
- 2. The shuttle bus will leave the Lakeshore Hotel on 10:50am, Oct. 14 (Sun).
- 3. If you want to check your baggage, please finish your consignment before 10:30am.

# Schedule Overview

# Friday, October 12

11:00 - 14:00	Registration
14:00 - 15:20	Plenary Lecture (2)
15:20 - 15:40	Coffee Break
15:40 - 17:50	Parallel Session I (A+B)
	(4 Invited Lectures + 2 Oral Presentations)
18:50 - 21:00	Reception & Poster Session

# Saturday, October 13

08:30 - 09:50	Plenary Lecture (2)
09:50 - 10:10	Coffee Break
10:10 - 12:00	Parallel Session II (A+B)
	(3 Invited Lectures + 2 Oral Presentations)
12:00 - 13:40	Lunch
13:40 - 15:40	Special Session
	(2 Special Lectures + 2 Invited Lectures)
15:40 – 16:00	Coffee Break
16:00 - 17:30	Parallel Session III (A+B)
	(1 Special Lectures + 1 Invited Lectures + 2 Oral Presentations)
17:30 - 18:30	Poster Session
19:00 - 21:00	Banquet

# Sunday, October 14

08:30 - 09:50	Plenary Lecture (2)
09:50 - 10:20	Coffee Break / Check out
10:50 - 16:00	Bullet Train / Bus to Kenting for 16 <sup>th</sup> ISMAR
16:00 - 17:00	Registration for 16 <sup>th</sup> ISMAR
17:00 - 19:00	Mixer 16 <sup>th</sup> ISMAR

# **Tentative Scientific Program**

	10/12,		10/13,		10/14,
	Friday		Saturday		Sunday
		08:30   9:50	Plenary lecture(2)	08:30   09:50	Plenary lecture(2)
		09:50     10:10	Coffee Break	09:50       10:20	Coffee Break
11:00	5	10:10	Parallel session II		
14:00	Registration	12:00	(3 IL + 2 OL)		Bullet train / Bus
		12:00     13:40	Lunch	10:50	to Kenting
		13:40	Special session	   16:00	for
		   15:40	( <b>2SL</b> +2 IL)		
14:00   15:20	Plenary lecture(2)	15:40   16:00	Coffee Break		16th ISMAR
15:20	O a ff a a Dura a la	16:00	Parallel session III	16:00	Registration for 16th
   15:40	Coffee Break	17:30	( <b>1SL</b> +1 IL + 2OL)	   17:00	ISMAR
15:40   17:50	Parallel session I (4 IL + 2 OL)	17:30   18:30	Poster session	17:00   19:00	Mixer 16th ISMAR
18:50   21:00	Reception Poster session	19:00     21:00	Banquet		

6 PL: Plenary Lecture (40min); 4 SL: Special Lecture (35min)

18 IL: Invited Lecture (25min); 12 OP: Oral Presentation (15min)

# Speaker Presentations

# The 2nd Asia-Pacific NMR Symposium (1st day) October 12 (Fri)

11:00–14:00 **Registration** 

14:00–15:20 **Plenary Lecture (2)** 

**Chair:** Dr. Masatsune Kainosho Nagoya University, Japan

PL1 Suppressors of cytokine Signalling: more than just structured proteins

Ray Norton

Structural Biology Division, Walter and Eliza Hall Institute of Medical Research,

Australia

PL2 NMR Structural Studies of the  $\sigma^{54}$  Subunit of Bacterial RNA Polymerase

**David Wemmer** 

Department of Chemistry, University of California and Physical Biosciences Division, Lawrence Berkeley National Laboratory, USA

15:20–15:40 **Coffee Break** 

15:40–17:50 **Parallel Session I – A & B** 

Parallel Session I – A: Solid State NMR

Chair: Dr. Hideo Akutsu

Institute for Protein Research, University of Osaka, Suita, Japan

IL1 Local Structure and Dynamics of Membrane Proteins and Membrane Associated Peptides as Revealed by Site Directed Solid State NMR

Akira Naito

Graduate School of Engineering, Yokohama National University, Yokohama, Japan

IL2 Alkanes and xenon as ligands: NMR methods for characterizing photolytically

Graham Edwin Ball

generated, short-lived complexes

School of Chemistry, University of New South Wales, Sydney, Australia

IL3	Directly Probing the Metal Center Environment in Layered Zirconium
	Phosphates by Solid-state <sup>91</sup> Zr NMR

**Yining Huang** 

Department of Chemistry, The University of Western Ontario, London, Ontario, Canada

IL4 Diffusion MRI in Neuropsychiatric Diseases: Tractography and Beyond

Wen-Yih Isaac Tseng

College of Medicine, National Taiwan University, Taipei, Taiwan

OP1 Unexpectedly Large Resolution and Sensitivity Enhancement at 900 MHz (21.1 T) in MAS NMR of Spin-1/2 in Solids

Riqiang Fu

National High Magnetic Field Laboratory, Florida State University, USA

#### Parallel Session I – B: Solution NMR

Chairs: Dr. Young Ho Jeon

Bio Magnetic Resonance Research Center, KBSI, Korea

Dr. Ichio Shimada

Graduate School of Pharmaceutical Sciences, University of Tokyo, Japan

IL5 Chelerythrine and sanguinarine bind at novel sites on  $Bcl_{XL}$  and Mcl-1 that are not the classic "BH3 binding cleft"

MOK Yu-Keung, Henry

Department of Biological Sciences, National University of Singapore, Singapore

IL6 Implementation of New NMR Methods

Ruediger Weisemann

Bruker Biospin GmbH, Silberstreifen, D-76275 Rheinstetten, Germany

IL7 Structural biology of SUMOylation

Masahiro Shirakawa

Graduate School of Engineering, Kyoto University, Japan

IL8 Structure and Protein-Protein Interaction of *Helicobacter pylori* Proteins

Bong-Jin Lee

College of Pharmacy, Seoul National University, Korea

OP2 Human Pancreatitis-associated Protein Forms Fibrillar Aggregates with a Native-like Conformation

Yuan-Chao Lou

Academia Sinica, Taipei, Taiwan

OP3 Oxidative protein folding in Gram-negative bacteria. Structure and dynamics of

the oxidoreductase enzyme DsbA

Martin J. Scanlon

Monash University, Australia

#### 18:50–21:00 **Reception & Poster Session**

The 2nd Asia-Pacific NMR Symposium (2nd day) October 13 (Sat)

08:30–09:50 **Plenary Lecture (2)** 

Chair: Dr. Chin Yu

Department of Chemistry, National Tsing Hua University, Taiwan

PL3 Structural and functional studies of non-coding RNAs

Juli Feigon

Department of Chemistry and Biochemistry, University of California, Los

Angeles, USA

PL4 NMR approach for interaction analysis of larger proteins

Ichio Shimada

Graduate School of Pharmaceutical Sciences, University of Tokyo, Tokyo, Japan

09:50–10:10 **Coffee Break** 

#### 10:10-12:00 **Parallel Session II - A & B**

#### Parallel Session II – A: Solid State NMR

Chair: Dr. Akira Naito

Graduate School of Engineering, Yokohama National University, Japan

IL9 Solid-state NMR Structural Studies of Transmembrane Proteins

Yongae Kim

Department of Chemistry, Hankuk University of Foreign Studies, Yongin, Korea

IL10 Various Types of Hydrogen Bonds, Their Temperature Dependence and Water-Polymer Interaction in Hydrated Poly(Acrylic Acid) as Revealed by <sup>1</sup>H

Solid-State NMR Spectroscopy

Ping-chuan Sun

College of Chemistry and College of Physics, Nankai University, Tianjin, China

# IL11 Multinuclear Solid State NMR Studies and XRD/SEM Structural Characterisation of NZP-type Materials

John V. Hanna

CSIRO North Ryde NMR Facility, New South Wales, Australia

OP4 Pressure NMR system: Way to make and use

Ryo Kitahara

RIKEN SPring-8 Center, Japan

OP5 Structural determinants for membrane interaction of novel bioactive undecapeptides derived from gaegurin 5

Min-Duk Seo

National Research Laboratory (MPS), Research Institute of Pharmaceutical Sciences, College of Pharmacy, Seoul National University, Seoul 151-742, Korea

#### Parallel Session II – B: Solution NMR

Chairs: Dr. Shan-Ho Chou

Institute of Biochemistry, National Chung Hsing University, Taiwan

Dr. Chin-pan Chen

Academia Sinica, Taipei, Taiwan

IL12 Structural Studies for Disease-related Proteins

Chaejoon Cheong

Magnetic Resonance Team, Korea Basic Science Institute, Korea

IL13 NMR Structure and Backbone Dynamics of Streptopain: Insight into Diverse Substrate Specificity

Woei-Jer Chuang

Department of Biochemistry, National Cheng Kung University, Tainan, Taiwan

IL14 Solution structures of two subunits in the whole TFIIE molecule

Yoshifumi Nishimura

Graduate School of Integrated Science, Yokohama City University, Japan

OP6 Solution structure of family 21 carbohydrate-binding module from Rhizopus oryzae glucoamylase

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Department of Life Sciences, National Tsing Hua University, Taiwan

OP7 Solution structure and dynamics of SWIRM domain from the SRG3, a murine

homologue of yeast SWI3 and human BAF155

Joon Shin

Department of Biochemistry, Yonsei Univeristy, Korea

12:00–13:40 **Lunch** 

### 13:40–15:40 Special Session for Complementarity of NMR & X-ray crystallography

Chair: Dr. Ray Norton

Structural Biology Division, Walter and Eliza Hall Institute of Medical Research, Australia

SL1 Protein NMR & Crystallography in Structural Genomics and Cancer Structural

Biology

Cheryl Arrowsmith

Ontario Cancer Institute, University of Toronto, Ontario, Canada

SL2 Intrinsic motions along an enzymatic reaction trajectory studied by NMR,

Crystallography, Computation and FRET

Dorothee Kern

Department of Biochemistry, Brandeis University, USA

IL15 Structural basis for superoxide generation by phagocyte NADPH oxidase

Fuyuhiko Inagaki

Department of Structural Biology, Hokkaido University, Sapporo, Japan

IL16 Structural Basis of Citrate-dependent and Heparan Sulfate-mediated Cell

**Surface Retention of Cobra Cardiotoxin A3** 

Chun-Jung Chen

National Synchrotron Radiation Research Center, Taiwan

15:40–16:00 **Coffee Break** 

#### 16:00–17:30 **Parallel Session III –A & B**

Parallel Session III – A: Solid State NMR

Chair: Dr. Lou-Sing Kan

Academia Sinica, Taipei, Taiwan

SL3 Atomic Structure of the Chlorosome Rod Element Specialized for Capturing Weak Light Determined by Solid-state NMR Hideo Akutsu Institute for Protein Research, University of Osaka, Suita, Japan IL17 Structure of Silk studied with Solid State NMR Tetsuo Asakura Department of Biotechnology, Tokyo University of Agriculture and Technology, Tokyo, Japan OP8 NMR investigation of a protein in membrane environments: a model study using crambin Hee-Chul Ahn Advanced Analysis Center, Korea Institute of Science and Technology (KIST), Korea OP9 Applications of NMR in bioanalysis: small and LARGE Sunghyouk Park Department of Medical Science, Inha University, Korea Parallel Session III – B: Solution NMR Chair: Dr. Mitsuhiko Ikura Department of Medical Biophysics, University of Toronto, Canada Quantitative Metabolomics by Two-Dimensional <sup>1</sup>H-<sup>13</sup>C NMR SL4 John L. Markley Department of Biochemistry, University of Wisconsin Madison, USA **IL18** Interconversion between two unrelated protein folds in the lymphotactin native state Brian F. Volkman Department of Biochemistry, Medical College of Wisconsin, USA OP10 A glimpse into protein folding on the ribosome by NMR spectroscopy Shang-Te Danny Hsu Department of Chemistry, University of Cambridge, United Kingdom **OP11** Structural analysis of a biosurfactant, Arthrofactin, produced by *Pseudomonas sp.* 

MIS38

Takahisa Ikegami

Institute for Protein Research, Osaka University, Japan

OP12 Defining the molecular interactions of mitochondrial import receptors: A case for

evolutionary convergence

Paul R. Gooley

Department of Biochemistry and Molecular Biology and Bio21 Molecular Science and Biotechnology Institute, University of Melbourne, Australia

17:30–18:30 **Poster Session** 

19:00–21:00 **Banquet** 

The 2nd Asia-Pacific NMR Symposium (3rd day) October 14 (Sun)

08:30–09:50 **Plenary Lecture (2)** 

Chair: Dr. Weontae Lee

Department of Biochemistry, Yonsei University, Korea

PL5 Nobody does it better than NMRers: Natively Unfolded Proteins

Kyou-Hoon Han

Protein Analysis & Design Section, Molecular Cancer Center, Korea Research Institute of Bioscience and Biotechnology, Daejon, Korea

PL6 FHA – a phosphothreonine recognizing domain able to count the number of phosphates

Ming-Daw Tsai

Genomics Research Center and Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan

09:50–10:20 **Coffee Break** 

 $10:50-16:00 \quad \textbf{Bullet Train / Bus to Kenting for 16}^{th} \, \textbf{ISMAR}$ 

16:00–17:00 **Registration for 16<sup>th</sup> ISMAR** 

17:00–19:00 **Mixer 16<sup>th</sup> ISMAR** 

# **Poster Presentations**

### (A) Solution NMR

- AP1 Solution Structures and Dynamics of Rat Lipocalins

  Jiafu Liu, Fang Zhang, Chenyun Guo, Hongchang Gao, and Donghai Lin\*

  NMR Laboratory, Shanghai Institute of Materia Medica, Chinese Academy of Sciences,

  Shanghai 201203, China
- AP2 Identification of the Neutralizing Antibody and Heparin Binding Sites of the Domain III of JEV and DENV Envelope Proteins

  Jya-Wei Cheng, Chih-Wei Wu, Yi-Ting Lin, Shiyi Her, Kuo-Chun Huang, and Suh-Chin Wu

  Institute of Biotechnology and Department of Life Science, National Tsing Hua University, Hsinchu, 300, Taiwan.
- AP3 NMR studies on the di-SUMO2 and mono-SUMO2

  Seong Ok Kim, Young Mee Kim, Hye Rim Yoon, and Byong-Seok Choi\*

  Department of Chemistry, Center for Repair System of Damaged DNA, KAIST, Daejeon, Korea
- AP4 Structural basis of PmrD protein that connects PhoP/PhoQ and PmrA/PmrB two-component signal-transduction systems

  Shih-Chi Luo<sup>1,2,3</sup>, Yuan-Chao Lou<sup>2</sup>, Hsin-Yao Cheng<sup>4</sup>, Hwei-Ling Peng<sup>4</sup> and Chinpan Chen<sup>1,2</sup>\*

  <sup>1</sup>Chemical Biology and Molecular Biophysics, Taiwan International Graduate Program and <sup>2</sup>Institute of Biomedical Science, Academia Sinica, Taipei 115, Taiwan; <sup>3</sup>Institute of Bioinformatics and Structural Biology, College of Life Sciences, National Tsing Hua University, Hsinchu 300, Taiwan; <sup>4</sup>Department of Biological Science and Technology, National Chiao Tung University, Hsinchu 300, Taiwan
- AP5 Conformational analysis of β subunit in 350 kDa F<sub>1</sub>-ATPase subcomplex with solution NMR
   Masumi Kobayashi<sup>1</sup>, Hiromasa Yagi<sup>1</sup>, Toshio Yamazaki<sup>2</sup>, Masasuke Yoshida<sup>3</sup>, and Hideo Akutsu<sup>1</sup>
   <sup>1</sup> Institute for Protein Research, Osaka University, <sup>2</sup> RIKEN, G.S.C., <sup>3</sup> Natural Resources Laboratory, Tokyo Institute of Technology
- AP6 Structural basis for tubulin recognition by CLIP-170

  Masaki Mishima<sup>1,5,6</sup>, Ryoko Maesaki<sup>2,6</sup>, Miyuki Kasa<sup>2,3</sup>, Takashi Watanabe<sup>4</sup>,

Masaki Fukata<sup>4</sup>, Kozo Kaibuchi<sup>4</sup> and Toshio Hakoshima<sup>1,2,3</sup>

<sup>1</sup>Graduate School of Biological Science, <sup>2</sup> Structural Biology Laboratory, Nara Institute of Science and Technology, <sup>3</sup> CREST, <sup>4</sup>Department of Cell Pharmacology, Nagoya University, and <sup>5</sup>Graduate school of Science and Technology, Tokyo Metropolitan University, <sup>6</sup>Contributed equally to this work

AP7 Base-pair dynamics in GATC sites with various methylation status and structure of fully methylated GATC site

Jongchul Bang, Seikh Imtiaz Ali, Kyungeun Lim, and Byong-Seok Choi Korea Advanced Institute of Science and Technology, 373-1 Guseong-dong Yuseong-gu Daejeon 305-701 Republic of Korea

- AP8 PWWP Module of Human Hepatoma-derived Growth Factor Forms a Domain-swapped Dimer with Much Higher Affinity for Heparin

  Wei-Tin Lee<sup>1</sup>, Shih-Che Sue<sup>1</sup>, Shi-Chi Tien<sup>1</sup>, Shao-Chen Lee<sup>2</sup> Jiun-Guo Yu<sup>1</sup>,

  Wen-Jin Wu<sup>1</sup>, Wen-guey Wu<sup>2</sup> and Tai-huang Huang<sup>1,3</sup>

  <sup>1</sup>Institute of BiomedicalSciences, Academia Sinica, Taipei, Taiwan, R.O.C. Institute of Bioinformatics and Structural Biology, College of Life Sciences, National Tsing Hua

  University, Hsinchu, Taiwan, R.O.C. Department of Physics, College of Sciences, National Taiwan NormalUniversity, Taipei, Taiwan, R.O.C.
- AP9 NMR Studies of Virulence-associated Proteins and Small Conserved Hypothetical Proteins in *Klebsiella Pneumoniae*

<u>Kuo-Wei Hung</u> <sup>1</sup>, Yi-Chao Lin <sup>1</sup>, Jia-Huei Chen <sup>1</sup>, Pei-Ju Fan <sup>2</sup>, Chi-Fon Chang <sup>2</sup>, Shih-Feng Tsai <sup>3</sup> and Tai-Huang Huang <sup>1,2,\*</sup>

<sup>1</sup>Inst. Biomed. Sci., <sup>2</sup>Genomic Research Center, Academia Sinica, Taipei, Taiwan, ROC <sup>3</sup>Div. Molecular & Genomic Medicine, National Health Research Institute, Zhunan, Miaoli, Taiwan, ROC

AP10 Structural Characterization of the Individual Domains of BldD, a Transcriptional Regulator in *Streptomyces coelicolor* 

<u>Yoo-Sup Lee<sup>1</sup></u>, Jeong-Mok Kim<sup>2</sup>, Sung-Hee Lee<sup>1</sup>, Hyun-Suk Ko<sup>1</sup>, Sa-Ouk Kang<sup>2</sup>, and Hyung-Sik Won<sup>1,\*</sup>

<sup>1</sup>Dept. of Biotechnology, CBITRC, Konkuk University, Korea, <sup>2</sup>Seoul National University, Korea

AP11 Solution structure of Kazal-type Serine Protease Inhibitor 2

Ting Chen, Tian-Ren Lee and Ping-Chiang Lyu

Institute of Bioinformatics and Structural Biology, National Tsing Hua University, Taiwan

- AP12 Structural Study on RTN1-A by using NMR
  Sun-Bok Jang, <u>Ji-Yoon Lee</u>, Sung-Jean Park, and Bong-Jin Lee
  National Laboratory of Membrane Protein Structure, Research Institute of Pharmaceutical
  Sciences, College of Pharmacy, Seoul National University, Korea
- AP13 Structural characterization of 19 kDa CD1 domain of human mitotic checkpoint serine/threonine-protein kinase, Bub1: Secondary structure determination using NMR Hyun-Hwi Kim<sup>a</sup>, Sung Jean Park<sup>a</sup>, Yu-Sun Jung<sup>a</sup>, Su-Jin Kang<sup>a</sup>, Hyun-Kyu Song<sup>b</sup>, and Bong-Jin Lee<sup>a\*</sup>

  aNational Lab. of Membrane Protein Structure (MPS), Research Institute of Pharmaceutical Sciences, College of Pharmacy, Seoul National University, San 56-1, Shillim-Dong, Kwanak-Gu, Seoul 151-742, Korea bSchool of Life Sciences and Biotechnology, Korea University, Anam-Dong, Seongbuk-Gu, Seoul 136-701, Korea
- AP14 Identification of the WW Domain-Interaction Sites in the Unstructured N-terminal Domain of EBV LMP 2A

  Seung-Hyeon Seok, Min-Duk Seo, Sung Jean Park, Hyun-Jung Kim and Bong Jin Lee
  National Research Laboratory (MPS), Research Institute of Pharmaceutical Sciences,
  College of Pharmacy, Seoul National University, San 56-1, Shillim-Dong, Kwanak-Gu,
  Seoul 151-742, Korea
- AP15 Characterization of SSB2 Mutants by NMR Spectroscopy: Structural Perturbation and Implications for Binding Interactions

  Shenggen Yao, Andrew Low, Zhihe Kuang, Rowena S Lewis, Seth L. Masters,

  Tracy A. Willson, Nick A. Nicola, Sandra E. Nicholson, and Raymond S. Norton

  The Walter and Eliza Hall Institute of Medical Research, 1G Royal Parade, Parkville,

  Victoria 3050, Australia
- AP16 NMR and structural studies of Plant Telomere Binding Protein, Ngtrf from Nicotonosa Glutinosa

  Sunggeon Ko<sup>a,c</sup>, Heeyoung Park<sup>a,c</sup>, Jung-Sue Byun<sup>b</sup>, Hansol Kim<sup>b</sup>, Woong Han<sup>a</sup>, Woo

  Taek Kim<sup>b</sup>, Hyun-Soo Cho<sup>b,c</sup> and Weontae Lee<sup>a,c</sup>\*

  aDepartment of Biochemistry, Yonsei University, Seoul 120-749, Korea; bDepartment of Biology and Protein Network Research Center, Yonsei University
- AP17 Implementation of 3D Projection Reconstruction Triple Resonance Experiments on Bruker NMR Spectrometers

  Wen-Jin Wu and Tai-Huang Huang
  Institute of Biomedical Sciences, Academia Sinica, Nankang, Taipei 11529, Taiwan

<u>Ji-Hye Yun</u>, Yong-Chul Kim, Heeyong Park and Weontae Lee Department of Biochemistry, Structural Biochemistry & Molecular Biophysics Lab., Yonsei University, Seoul 120-749, Korea

- AP19 NMR studies on human peroxiredoxin VI

  Sangyun Kim<sup>1</sup>, Eunmi Hong<sup>1</sup>, Joon Shin<sup>1</sup>, Sangwon Kang<sup>2</sup>, Sangwon Kang<sup>3</sup>, Chaejoon
  Cheong<sup>3</sup>, and Weontae Lee<sup>1</sup>

  Department of Biochemistry, Yonsei University, Seoul 120-749, Republic of Korea

  Center for Cell Signalling Research and Division of Molecular Life Sciences, Ewha
  Womans University, Seoul 120-749, Republic of Korea <sup>3</sup>Magnetic Resonance Team, Korea
  Basic Science Institute, Daejeon 305-333, Republic of Korea
- AP20 Structure and Dynamics of a Ribosome-bound Nascent Chain by NMR Spectroscopy

  Shang-Te D. Hsu<sup>1</sup>, Paola Fucini<sup>2</sup>, Lisa D. Cabrita<sup>1</sup>, Hélène Launay<sup>1</sup>, Christopher M.

  Dobson<sup>1</sup>, and John Christodoulou<sup>1</sup>

  Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2

  1EW, United Kingdom and <sup>2</sup>Max Planck Institute for Molecular Genetics, Ihnestrasse 73,

  Berlin D-14196, Germany
- AP21 Interaction Studies of Syndecan-4 and Syntenin-1 complex using NMR Spectroscopy

  Ji-Eun Lee<sup>1</sup>, Bon-Kyung Koo<sup>1</sup>, Eok-Soo Oh<sup>2</sup>, and Weontae Lee<sup>1\*</sup>

  Department of Biochemistry and Protein Network Research Center, College of Science,
  Yonsei University, Seoul 120-749 Korea <sup>2</sup>Department of Life Sciences, Division of
  Molecular Life Sciences and Center for Cell Signaling Research, Ewha Womans
  University, Seoul 120-750
- AP22 Fast Structure Elucidation of Small Molecules by Hadamard NMR

  <u>Eriks Kupce</u><sup>1</sup>, and Ray Freeman<sup>2,\*</sup>

  <sup>1</sup>Varian NMR and MRI Systems, Oxford, UK, <sup>2</sup>Jesus College, Cambridge University, Cambridge, UK
- AP23 Structural Basis of the G:G Specificity of ASFV DNA Polymerase X
  Mei-I Su<sup>1,4</sup>, Wen-Jin Wu<sup>3</sup>, Sandeep Kumar<sup>4</sup>, and Ming-Daw Tsai<sup>1,2,4,5</sup>,

  <sup>1</sup>Genomics Research Center, <sup>2</sup>Institute of Biological Chemistry, and <sup>3</sup>Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan 115. <sup>4</sup>Department of Chemistry and <sup>5</sup>Department of Biochemistry, The Ohio State University, Columbus, Ohio 43210,USA
- AP24 Recognition of SUMO-3 (Small Ubiquitin-like Modifier-3) by a SUMO-interacting motif Naotaka Sekiyama<sup>1</sup>, Hisato Saitoh<sup>2</sup>, Takahisa Ikegami<sup>3</sup>, Hidehito Tochio<sup>1</sup>, and Masahiro Shirakawa<sup>1</sup>

<sup>1</sup>Department of Molecular Engineering, Kyoto University, <sup>2</sup>Department of Regeneration Medicine, Institute of Molecular Embryology and Genetics, Kumamoto University <sup>3</sup>Institute for Protein Research, Osaka University

- AP25 Accurate Quantification of Cyanobacterial Toxins by <sup>1</sup>H-NMR

  Jan Schripsema<sup>1,2</sup>, Denise Dagnino<sup>2</sup>, and Peter Verhaert<sup>1</sup>

  <sup>1</sup>Delft University of Technology, Analytical Biotechnology, Julianalaan 67, 2628 BC Delft,
  The Netherlands. <sup>2</sup>Grupo Metabolomica, Universidade Estadual do Norte Fluminense, Av.

  Alberto Lamego, 2000, 28015-620 Campos dos Goytacazes, RJ, Brazil.
- AP26 Mutagenesis Study of Rice Nonspecific Lipid Transfer Protein 2 Reveals Residues that
  Contribute to Structure and Ligand Binding
  Chao-Sheng Cheng, Ming-Nan Chen, Yen-Ting Lai, Ku-Feng Lin, Yaw-Jen Liu, and
  Ping-Chiang Lyu
  Institute of Bioinformatics and Structural Biology, National Tsing Hua University, Taiwan
- AP27 Studies on the SARS coronavirus nucleocapsid protein using a hybrid approach From structure to function

  <u>Chung-ke Chang</u><sup>1</sup>, Yuan-hsiang Chang<sup>1</sup>, Yen-lan Hsu<sup>1</sup>, Chun-Yuan Chen<sup>2</sup>, Ming-Chya Wu<sup>3</sup>, Chin-Kun Hu<sup>3</sup>, Chwan-Deng Hsiao<sup>2</sup>, and Tai-huang Huang<sup>1,\*</sup>

  <sup>1</sup>Institute of Biomedical Sciences, <sup>2</sup>Institute of Molecular Biology, and <sup>3</sup>Institute of Physics, Academia Sinica, Taiwan
- AP28 Structural Characterization of Amyloidogenic Folding Intermediate of β<sub>2</sub>-Microglobulin Atsushi Kameda<sup>1,4</sup>, Masato Shimizu<sup>2</sup>, Eugene-Hayato Morita<sup>2</sup>, Hironobu Naiki<sup>3,4</sup>, and Yuji Goto<sup>1,4,\*</sup>

  <sup>1</sup>Institute for Protein Research, Osaka University, Japan, <sup>2</sup>Integrated Center for Science, Ehime University, Japan, <sup>3</sup>Faculty of Medical Sciences, University of Fukui, Japan, <sup>4</sup>CREST/JST
- AP29 Some new aspects of the SAIL method for protein structural studies

  Mitsuhiro Takeda<sup>1</sup>, Chung-ke Chang<sup>2</sup>, Ing-jye Jiang<sup>2</sup>, Kenichiro Nakamura<sup>3</sup>,

  Tsutomu Terauchi<sup>4</sup>, Saburo Aimoto<sup>3</sup>, Tai-huang Huang<sup>2</sup>, and Masatsune Kainosho<sup>1,5</sup>,

  <sup>1</sup>Graduate School of Science, Nagoya University, Furo, Chikusa, Nagoya 464-8622, Japan

  <sup>2</sup>Institute of Molecular Biology, Academia Sinica, Taipei 115, Taiwan, Graduate School of Science, Osaka University, Toyonaka, Osaka 560-0043, Japan

  <sup>4</sup>SAIL Technologies, 1-40

  Suehiro, Tsurumi, Yokohama 230-0045, Japan Graduate School of Science, Tokyo

  Metropolitan University, 1-1, Minami-ohsawa, Hachioji, Tokyo 192-0397, Japan
- AP30 The Solution Structure of Recombinant RGD-hirudin Linsen Dai<sup>1\*</sup>, Xia Song<sup>1</sup>, Wei Mo<sup>2</sup>, Xingang Liu<sup>1</sup>, Lina Zhu<sup>1</sup>, Xiaomin Yan<sup>1</sup>, and

Houyan Song<sup>2\*</sup>

<sup>1</sup> Center of Analysis and Measurement, Fudan University, Shanghai 200433, <sup>2</sup>Key Laboratory of Molecular Medicine, Ministry of Education, Fudan University, Shanghai 200032, China.

AP31 Human Pancreatitis-associated Protein Forms Fibrillar Aggregates with A Native-like Conformation

Meng-Ru Ho<sup>1,2</sup>, Yuan-Chao Lou<sup>1</sup>, Ping-Chiang Lyu<sup>2</sup>, and Chinpan Chen<sup>1\*</sup>

<sup>1</sup>Institute of Biomedical Sciences, Academia Sinica, Taipei 115, Taiwan, ROC; <sup>2</sup>Institute of Bioinformatics and Structural Biology, College of Life Sciences, National Tsing Hua University, Hsinchu 300, Taiwan, ROC

AP32 Evaluation of Butter and Margarine by Nuclear Magnetic Resonance Jan Schripsema<sup>1,2</sup>

<sup>1</sup> Analytical Biotechnology, Department of Biotechnology, Delft University of Technology, Julianalaan 67, 2628 BC Delft, The Netherlands, <sup>2</sup> Grupo Metabolomica, Laboratorio de Ciencias Quimicas, CCT, Universidade Estadual do Norte Fluminense, Av. Alberto Lamego, 2000, 28015-620, Campos dos Goytacazes, RJ, Brazil.

AP33 Structural determinants for membrane interaction of novel bioactive undecapeptides derived from gaegurin 5

Min-Duk Seo, † Hyung-Sik Won, † and Bong-Jin Lee†

<sup>†</sup> National Research Laboratory (MPS), Research Institute of Pharmaceutical Sciences, College of Pharmacy, Seoul National University, Seoul 151-742, Korea <sup>‡</sup> Department of Biotechnology, Division of Life Sciences, College of Biomedical & Health Science, Konkuk University, Chungju, Chungbuk 380-701, Korea

AP34 Investigation on the Interactions between Diperoxovanadate Complexes and Organic Molecules

<u>Shu-Hui Cai</u>, Xian-Yong Yu, Bi-Rong Zeng, and Zhong Chen Departments of Physics and Chemistry, Xiamen University, Xiamen 361005, China

- AP35 Role of S100A13 in the FGF-1 Non-classical pathway

  S. Krishna Mohan, G. Sandhya Rani, Ch. Upendar, S. Manoj Kumar, C.Yu\*

  Chemistry Department, National Tsing Hua University, Hsinchu, Taiwan
- AP36 Comparisons among <sup>1</sup>HNMR spectra of sacchaide molecule measured with 500MHz, 750MHz, 800MHz, and 920MHz NMR magnets

  <u>Hiroshi Nakanishi</u>

Research Institute of Instrumentation Frontier, National Institute of Advanced Industrial

### (B) Solid state NMR

BP4

- BP1 Effect of Hydrogen Bonding Interactions in Crystalline Amino Acids and Peptides on <sup>14</sup>N EFG Parameters: A Theoretical Calculation Study

  <u>Anmin Zheng</u><sup>1, 2</sup>, Hailu Zhang<sup>2</sup>, Shang-Bin Liu<sup>1</sup>, Chaohui Ye<sup>2</sup>, and Feng Deng<sup>2</sup>

  <sup>1</sup>Institute of Atomic and Molecular Sciences, Academia Sinica, P. O. Box 23-166, Taipei 106, Taiwan <sup>2</sup>State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, the Chinese Academy of Sciences, Wuhan 430071, China
- BP2 Pressure induced isomerization of retinal and structural changes of bacteriorhodopsin as disclosed by fast magic angle spinning NMR

  Izuru Kawamura<sup>1</sup>, Junko Tanabe<sup>1</sup>, Yoshiaki Degawa<sup>1</sup>, Akimori Wada<sup>2</sup>, Satoru Tuzi<sup>3</sup>, and Akira Naito<sup>1</sup>

  Yokoahama National University, Japan, <sup>2</sup>Kobe Pharmaceutical University, Japan, <sup>3</sup>University of Hyogo, Japan
- BP3 Characterization of Chitosan/Carboxymethyl Cellulose Complex by Solid NMR
  Shiro Maeda<sup>1\*</sup>, <u>Yuko Fujimoto<sup>1</sup></u>, and Kensuke Sakurai<sup>2</sup>

  <sup>1</sup>Division of Applied Chemistry and Biotechnology and <sup>2</sup>Division of Materials Science and Engineering, Graduate School of Engineering, University of Fukui, Japan

Characterization of Microbial Poly(\varepsilon-L-lysine)/Poly(acrylic acid) Complex by Solid-State

- NMR

  Shiro Maeda\*1, <u>Yasuhiro Fujiwara</u>1, Chizuru Sasaki², and Ko-Ki Kunimoto³

  <sup>1</sup>Division of Applied Chemistry and Biotechnology, Graduate School of Engineering, University of Fukui, Japan <sup>2</sup>Department of Life System, Institute of Technology and Science, The University of Tokushima, Japan <sup>3</sup>Division of Applied Science, Graduate School of Natural Science and Technology, Kanazawa University, Japan
- BP5 Characterization of Microbial Poly(ε-L-Lysine) / Carboxy Methyl Cellulose Blends by Solid State <sup>13</sup>C and <sup>15</sup>N NMR
  Shiro Maeda\*<sup>1</sup>, <u>Kumiko Kato</u><sup>1</sup>, Chizuru Sasaki<sup>2</sup>, and Ko-Ki Kunimoto<sup>3</sup>

  <sup>1</sup>Division of Applied Chemistry and Biotechnology, Graduate School of Engineering, University of Fukui, Japan <sup>2</sup>Department of Life System, Institute of Technology and Science, The University of Tokushima, Japan <sup>3</sup>Division of Applied Science, Graduate School of Natural Science and Technology, Kanazawa University, Japan

BP6 Asymmetric metabolic changes in bilateral hippocampi at the early stage of electrogenic rat epilepsy measured by using HR-MAS NMR

Huilang Liu<sup>1</sup>, Fang Fang<sup>1</sup> Hang Zhu<sup>1</sup>, Sheng-an Xia<sup>1</sup>, Dan Han<sup>2</sup>, Ling Hu<sup>2</sup>, Hao Lei<sup>1</sup>, and Maili Liu<sup>1</sup>

<sup>1</sup>State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China <sup>3</sup>Department of Physiology, Medical College, Wuhan University, Wuhan 430071, China

BP7 Expression and purification of a transmembrane region from Amyloid  $\beta$  protein for Solid-state NMR Structural Studies

Tae-Joon Park and Yongae Kim\*

Dept. of Chemistry, Hankuk University of Foreign Studies, KOREA

BP8 Expression, Purification, and NMR Structural Studies of Obesity related Melanocortin 4-Receptor TM2

Sung-Sup Choi, Tae-Joon Park, and Yongae Kim\*

Dept. of Chemistry, Hankuk Univ. of Foreign Studies, KOREA

BP9 Metabonomic studies on human tumor tissues using high resolution magic angle spinning NMR (HRMAS) spectroscopy and multivariate data analysis

Yongxia Yang, Wenxue Chen, Xiu Nie, Feng Deng, Yong Yue and <u>Huiru Tang</u>\*
State Key Laboratory of Magnetic Resonance and Molecular and Atomic Physics, Wuhan Institute of Physics and Mathematics, The Chinese Academy of Sciences, Wuhan, 430071, PR China.

BP10 Selective Synthesis of Lamellar Titania with Carboxylate Precursor and Characterization by Solid-State NMR

Oc Hee Han<sup>1\*</sup>, <u>Younkee Paik<sup>1</sup></u>, and Wan In Lee<sup>2</sup>

<sup>1</sup>Korea Basic Science Institute, <sup>2</sup>Inha University, Korea

BP11 Characterization of Microbial Poly(ε-L-lysine)/Poly(L-lactic acid) Blend Films by Solid-State NMR

Shiro Meda\*1, Osamu Kinoshita1, Yasuhiro Fujiwara1, Kensuke Sakurai2, Chizuru Sasaki3, and Ko-Ki Kunimoto4

<sup>1</sup>Division of Applied Chemistry and Biotechnology <sup>2</sup>Division of Materials Science, Graduate School of Engineering, University of Fukui, Japan <sup>3</sup>Department of Life System, Institute of Technology and Science, The University of Tokushima, Japan <sup>4</sup>Division of Applied Science, Graduate School of Natural Science and Technology, Kanazawa University

- BP12 Formation, Location and Photocatalytic Degradation of Methoxy Species on 12-H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub>: A Solid-State NMR and DFT Calculation Study Hailu Zhang, Anmin Zheng, Huaguang Yu, Shenhui Li, and Feng Deng\* State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China
- BP13 Probing the bound conformation of Acetylcholinesterase (AChE) inhibitor at the binding site

Xin Zhao<sup>1,2,\*</sup>, Chang Gyeom Kim<sup>2</sup>, Scott Goodall<sup>2</sup> and Anthony Watts<sup>2</sup>

<sup>1</sup>Institute for Protein Research, Osaka University, 3-2 Yamadaoka, Suita-Shi, 565-0871

Osaka, Japan. <sup>2</sup>Department of Biochemistry, University of Oxford, South Parks Road,

OXFORD, OX1 3QU, UK

BP14 Solid-state NMR Investigations of Honeybee Wax and Hornet (*Vespa*) Silk

<u>Tsunenori Kameda</u>

National Institute of Agrobiological Sciences, Tsukuba, Japan

BP15 <sup>19</sup>F and <sup>27</sup>Al Solid-State NMR Studies on Fluorination and Dealumination of HY with Ammonium Fluoride and Ammonium Hexafluorosilicate Hsien-Ming Kao\*, Yi-Chen Liao, Yu-Chi Pan Department of Chemistry, National Central University, Chung-Li, Taiwan 32054, R.O.C.

# (C) NMR Imaging

CP1 Synthesis and evaluation of Gd-DTPA-Labeled Arabinogalactan Polymer as MRI Contrast
Agent
Wei-Sheng Li, Zhong-Feng Li, Xiao-Jing Li, Feng-Kui Pei\*
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, P.
R. China

CP2 In vivo Visualization of Cortical Areal Boundaries Using MEMRI

Carolyn Wan-hsun Wu, Stephen J. Dodd, Alan P. Koretsky

LFMI / National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, Maryland, USA

### (D) Others

- DP1 Characterization of Chiral Proline Derivative Anchored on Mesoporous SBA-15 Using Hyperpolarized <sup>129</sup>Xe NMR spectroscopy

  <u>Shing-Jong Huang<sup>1,2</sup></u>, Li-Hsiu Hsiao<sup>2</sup>, Shih-Yuan Chen<sup>2</sup>, Shou Heng Liu<sup>1</sup>, An-Ya Lo<sup>1</sup>, Soofin Cheng<sup>2</sup>, Shang-Bin Liu<sup>1,\*</sup>

  <sup>1</sup>IAMS, Academia Sinica, <sup>2</sup> Dept. of Chemistry, Nationa Taiwan University, Taiwan.
- DP2 Dynamics of Supercooled Water Confined in Single- and Double-walled Carbon Nanotubes

  Wen Qian<sup>1,3</sup>, Chou-Hsung Hsu<sup>2</sup>, Lian-Pin Hwang<sup>1,2\*</sup>

  <sup>1</sup> Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan <sup>2</sup>

  Department of Chemistry, National Taiwan University, Taipei, Taiwan <sup>3</sup> Hefei National Laboratory for Physical Sciences at Microscale, University of Science & Technology of China, P. R. China
- DP3 Building PACSY database for protein structure and chemical shift analysis
  Woonghee Lee<sup>1</sup>, Jin-Won Jung<sup>1</sup>, Suhkmann Kim<sup>2</sup>, Iksoo Jang<sup>3</sup>, and Weontae Lee<sup>1</sup>

  <sup>1</sup>Department of Biochemistry and HTSD-NMR & Application NRL, Yonsei University,
  Seoul 120-749, Republic of Korea <sup>2</sup>Department of Chemistry, Pusan National University,
  Busan 609-735, Republic of Korea <sup>3</sup>National Research Laboratory for Computational
  Proteomics and Biophysics, Department of Physics, Pusan National University, Busan
  609-735, Republic of Korea
- DP4 The conserved CPH domains of Cul7 and PARC are protein-protein interaction modules that bind the tetramerization domain of p53

  Lilia Kaustov<sup>1</sup>, Jack C.C. Liao<sup>1</sup>, Alexander Lemak<sup>1</sup>, Jonathan Lukin<sup>1</sup>, Shili Duan<sup>1</sup>, Linda Z. Penn<sup>1</sup>, and Cheryl H. Arrowsmith<sup>1,2,3.</sup>

  1Division of Cancer Genomics and Proteomics, Ontario Cancer Institute and Department of Medical Biophysics, University of Toronto, Toronto ON, Canada; 2Banting and Best Department of Medical Research, Toronto ON, Canada; 3Structural Genomics Consortium, Toronto ON, Canada.
- DP5 Introduction of a biological macromolecular NMR database; BMRB

  Yoko Harano<sup>1</sup>, Eiichi Nakatani<sup>1,2</sup>, Haruki Nakamura<sup>1</sup>, Eldon L. Ulrich<sup>3</sup>, John L. Markley<sup>3</sup>,

  Hideo Akutsu<sup>1</sup>, Toshimichi Fujiwara<sup>1</sup>

  Institute for Protein Research, Osaka University <sup>2</sup>Japan Science and Technology Agency

  BioMagResBank, University of Wisconsin-Madison

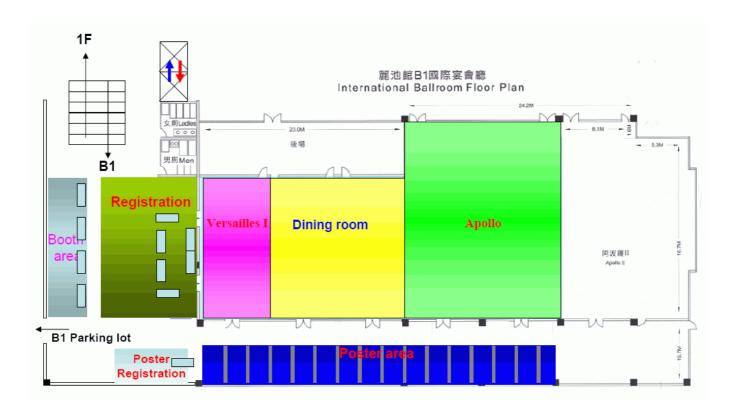
### **Conference Location**

The 2nd AP NMR will be held at Lakeshore Resort Hotel located in Hsinchu. Lying on the banks of Ching-Tsao Lake, the scenic Lakeshore Hotel is next to National Highway No. 3, and just a ten-minute drive from downtown. Lakeshore hotel has 377 classic guest rooms, and four fine dining restaurants



providing Chinese, Western, Japanese and buffet style cuisines. Our versatile ballrooms offer an elegant setting for events of all kinds. Spacious parking area, business center, limousine and shuttle service are offered to satisfy all your needs. Finally, the 5,500 square-meter Lakeshore Health Club is the place to go to rewind and relax you from the traveling.





# Accommodation

Conference accommodations are available at the Lakeshore Hotel. Accommodations have been secured at privileged rates for participants. To obtain the special low rate, however, your room must be reserved through the Hotel Reservation.

Hotel reservation information- http://apnmr2007.life.nthu.edu.tw/accommodation.htm Lakeshore Hotel- http://www.lakeshore.com.tw/













# Transportation

#### ☑ How to Reach Lakeshore Hotel

### Route 1: Take National Freeway No.1

Exit at Hsinchu Interchange to downtown direction and merge onto Kuang-fu Road. Please note that do not get on the viaduct. Then turn left on Nan-da Road and continue on Ming-hu Road. The hotel is on the left-hand side.

#### Route 2: Take National Freeway No.3

Exit at Hsinchu Interchange exit 103 and turn right to Ku-che Road. Then turn left on Chai-chiao Road. Continue on Ming-hu Road. The hotel is on the right-hand side.



#### ☑ Shuttle Bus Information

Lakeshore Hotel offers shuttle services from Taoyuan International Airport to hotel. Please check our website: http://apnmr2007.life.nthu.edu.tw/accommodation.htm

# Registration

### ☑ Registration Rates

	Early	After August 15
Regular	NT \$3,300 (~US\$100)*	NT \$4,000 (~US\$120)
Student	NT \$2,500 (~US\$75)	NT \$3,000 (~US\$90)

### ☑ Banquet (Oct 13, Saturday)

Regular	NT \$1,000 (~US\$30)*
Student	NT \$600 (~US\$20)

<sup>\*</sup> Based on an exchange rate of NT\$ 33 to US\$ 1, which may vary daily.

For more detailed registration information, please visit the Conference Website.

http://apnmr2007.life.nthu.edu.tw/registration.htm

## **Contact Information**

### **☑** Conference Chair

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