

香港科技大学校庆十周年国际神经科学会议  
暨 中国神经科学学会第四届学术会议  
会议日程

**DAILY PROGRAMME FOR  
THE INTERNATIONAL NEUROSCIENCE SYMPOSIUM FOR  
THE TENTH ANNIVERSARY OF  
THE HONG KONG UNIVERSITY OF SCIENCE AND  
TECHNOLOGY  
AND THE FOURTH BIENNIAL MEETING OF  
THE CHINESE SOCIETY FOR NEUROSCIENCE**

中国 香港  
**Hong Kong SAR, China**

会议主办 ORGANIZED BY:  
中国神经科学学会  
**The Chinese Society for Neuroscience**

香港北美医学会  
**The North American Medical Association, Hong Kong**

香港科技大学生物学系  
**Department of Biology,  
The Hong Kong University of Science and Technology**

二零零一年  
七月廿九日至八月三日  
**JULY 29 – AUGUST 3  
2001**

# 内容

## CONTENT

项目 Items	页 Page
委员会 Committees	P.4-P.5
赞助及鸣谢 Sponsorships and Contributors	P.6
主席的话 Message from the President	P.7-P.8
会议日程表 Daily programme	P.9-P.60
交通及地图 Transportation and Maps	P.61-P.65

# 委员会 COMMITTEES

大会主席 Chairman

于常海 Albert C.H. YU

秘书长 Secretary

路长林 Chang-Lin LU

名誉顾问 Honorary Advisors

张香桐 Hsiang-Tung ZHANG	李学勇 Xue-Yong LI
陈佳尔 Jia-Er CHEN	卢毓琳 Yuk-Lam LO
周孝先 Shou-Shen CHOW	黄永铿 Andrew W. H. WONG
陈宜瑜 Yi-Yu CHEN	张文康 Wen-Kang ZHANG

学术委员会名单 Program Committee

主席 Chairman

吴建屏 Chien-Ping WU

委员 Committee

陈应城 Ying-Shing CHAN	秦伯益 Bo-Yi QIN
陈宜张 Yi-Zhang CHEN	苏国辉 Kwok-Fai SO
韩济生 Ji-Sheng HAN	孙曼霁 Man-Ji SUN
鞠躬 Gong JU	唐孝威 Xiao-Wei TANG
李朝义 Chao-Yi LI	徐群渊 Qun-Yuan XU
路长林 Chang-Lin LU	杨雄里 Xiong-Li YANG
陆雪芬 Xue-Fen LU	于常海 Albert C. H. YU
裴钢 Gang PEI	赵志奇 Zhi-Qi ZHAO
蒲慕明 Mu-Ming POO	

## 组织委员会名单 Organizing Committee

主席 Chairman

于常海 Albert C. H. YU

委员 Committee

陈建国 Jian-Guo CHEN	岑国欣 Daisy K. Y. SHUM
钟淑子 Sookja K. CHUNG	孙凤艳 Feng-Yan SUN
高理德 Richard A. COLLINS	王晓民 Xiao-Min WANG
范明 Ming FAN	谢国扬 Guo-Yang XIE
叶玉如 Nancy Y. IP	谢俊霞 Jun-Xia XIE
钟思朴 Robert L. JONES	薛红 Hannah H. XUE
彭筱明 H. Benjamin PENG	叶嘉勋 Henry K. YIP
彭亮 Liang PENG	翁建霖 Ken K. L. YUNG
舒斯云 Si-Yun SHU	周江宁 Jiang-Ning ZHOU

名字次序是根据英文拼音字母排列 *The names are listed in alphabetical order*

## 赞助及鸣谢

### SPONSORSHIPS and CONTRIBUTORS

特别鸣谢 Special thanks to:

- n 王定一先生
- n 黄英豪律师
- n The Hong Kong Society of Neuroscience
- n Hong Kong Biotechnology Association (HKBTA)
- n Neuroscience Research Institute, Peking University
- n Molecular Neuroscience Institute, HKUST
- n Publish Technology Center, HKUST
- n Hong Kong DNA Chips Limited
- n Bioprobes Limited
- n Bio-Rad Pacific Limited
- n Chinetek Scientific (China) Limited
- n Olympus Optical Co., Limited
- n 中编印务有限公司(香港)
- n 论文审委会专家 Abstract Auditing Board:

陈宜张	Yi-Zhang CHEN	孙凤艳	Feng-Yan SUN
蒋雨平	Yu-Ping JIANG	吴建屏	Chien-Ping WU
李朝义	Chao-Yi LI	于常海	Albert C.H. YU
路长林	Chang-Lin LU	周长福	Chang-Fu ZHOU

n 编辑组及协办人仕 Editors and Contributors:

陈晓钗	Xiao-Qian CHEN	李哲	Zhi LI
胡延芳	Yan-Fang HU	冼碧玉	Judy P.Y. SIN
黄荣	Rong HUANG	谢德怡	May T. Y. TSE
许鸿杰	Michael H. K. HUI	王燕	Yan WANG
许蔼丽	Michelle O. L. HWOI	王新源	San Yuen WONG
林阳	Philip Y. LAM	谢国扬	Guo-Yang XIE
刘铭丰	Anson M. F. LAU	张昀	Yun ZHANG
李颖英	Fiona W. Y. LI		

名字次序是根据英文拼音字母排列 *The names are listed in alphabetical order*

## A Message from the President of The Chinese Society for Neuroscience

On behalf of the Chinese Society for Neuroscience, I'd like to welcome you all to the Fourth Biennial Meeting. We hope this meeting, which is the first to be held in Hong Kong, will be as successful as the previous meetings in Beijing, Xian and Shanghai.

The Biennial Meetings are a first-class opportunity for fellow neuroscientists from around the world to discuss their findings and initiate new avenues of research through collaboration and the exchange of ideas.

The Millennium has been a constant theme throughout the year as a metaphor for separating the past from the future. However, neuroscience is truly at the forefront of major change. Revolutions in molecular biology, particularly the sequencing of the human genome, the advent of high throughput microarrays capable of screening thousands of genes, and advances in pharmaceutical research means that a more complete picture of the functions and dysfunctions of the brain is at last becoming a reality.

We are pleased to be holding the Fourth Biennial Meeting in Hong Kong as it allows the Chinese Society for Neuroscience to extend its hand in friendship to our colleagues from overseas who have been previously unable to visit China. We can also join with the staff, students, alumni and people of Hong Kong to celebrate the 10th anniversary of the establishment of the Hong Kong University of Science and Technology - which has become one of the most well respected institutes in the region.

I would like to take this opportunity to extend my thanks to the Hong Kong University of Science and Technology for their hospitality and organisational skills and our many varied sponsors for their generosity. A large number of young scientists have been able to attend this meeting due to the travel grant scheme established with our sponsor's contributions.

Finally, please take back with you fond memories of Hong Kong. We hope the Fourth Biennial Meeting will be an enjoyable and stimulating environment for your continued research in neuroscience.



Chien-Ping Wu

## A Message from the Local Organizing Committee

Welcome to Hong Kong for the Fourth Biennial Meeting of the Chinese Society for Neuroscience. The local organisers would like to thank you for attending. This promises to be the most exciting and successful Biennial Meeting ever.

Our programme consists of many topical speeches and presentations by world-renowned neuroscientists. In addition, we have several workshops sponsored by our generous patrons who will present the latest techniques and products. Furthermore, we have an extensive poster session where we are delighted to welcome presentations from our many younger researchers from around the world and Mainland China in particular.

2001 is also the 10th anniversary of the foundation of the Hong Kong University of Science and Technology. We are delighted that we have been able to join with them to celebrate this occasion. Please make an effort to roam the campus and enjoy the spectacular sea-views.

A varied and enjoyable social program is available. Events are planned throughout the day so that those not wishing to join the scientific sessions will also have plenty to see and do. If you have any questions please do not hesitate to ask one of our many event organisers.

This symposium promises to be a stimulating and enjoyable time for all participants. The Biennial Meetings are designed to encourage the dissemination of knowledge for the benefit of the study of neuroscience. We hope that the presentations and workshops will provide a framework on which lasting friendships and collaborations can be based. We hope you will enjoy your time here.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Albert C.H. Yu', written in a cursive style.

Albert C.H. Yu  
The Chair of the Local Organizing Committee

	<b>Day 1 29/7 Sunday</b>	<b>Day 2 30/7 Monday</b>	<b>Day 3 31/7 Tuesday</b>	<b>Day 4 1/8 Wednesday</b>	<b>Day 5 2/8 Thursday</b>	<b>Day 6 3/8 Friday</b>
Morning		Opening ceremony (LTB)	Chinetek Scientific Plenary Lecture (LTB)	NORAM (HK) Plenary Lecture (LTB)	HKBTA Plenary Lecture (LTB)	Bio-Rad Plenary Lecture (LTB)
		The Chinese Society for Neuroscience Keynote Lecture (LTB)	Oral Report III: Session 1 (LTC) Session 2 (LTE) Session 3 (LTB) Special topics I (1403)	<i>Tour and Free Time</i>	Oral Report V: Session 1 (LTC) Session 2 (LTE) Session 3 (LTB) Special topics II (LTG)	Oral Report VII: Session 1 (LTC) Session 2 (LTE) Session 3 (LTB) Session 4 (LTG)
		Oral Report I: Session 1 (LTC) Session 2 (LTE) Session 3 (LTB)				HKUST 10 <sup>th</sup> Anniversary Plenary Lecture (LTB)
		Lunch (Staff Restaurant)			Lunch (Staff Restaurant)	Closing Remark
Afternoon	Registration (Academic Concourse)	Olympus Plenary Lecture (LTB)	HK DNA Chips Plenary Lecture (LTB)	<i>Tour and Free Time</i>	HKSN Plenary Lecture (LTB)	
		Oral Report II: Session 1 (LTC) Session 2 (LTE) Session 3 (LTB)	Oral Report IV: Session 1 (LTC) Session 2 (LTE) Session 3 (LTB)		Oral Report VI: Session 1 (LTC) Session 2 (LTE) Session 3 (LTB)	
		Poster Session I (Academic Concourse)	Poster Session II (Academic Concourse)		Poster Session III (Academic Concourse)	
		Dinner (Staff Restaurant)		Banquet (Treasure Restaurant)		
Evening	Reception (Staff Restaurant)	Workshops (LTB) (LTC) (LTE)	Society Council Meeting (6424)			



<b>29/7/2001</b>	<b>Sunday</b>	<b>Day 1</b>
<b>13:00-20:00</b>	<b>REGISTRATION</b>	<i>Academic Concourse</i>
<b>18:30-20:30</b>	<b>RECEPTION</b>	<i>Staff Restaurant, HKUST</i>
<b>30/7/2001</b>	<b>Monday</b>	<b>Day 2</b>
<b>9:00-9:30</b>	<b>OPENING CEREMONY</b>	<i>LTB</i>
<b>9:40 –10:40</b>	<b>THE CHINESE SOCIETY FOR NEUROSCIENCE KEYNOTE LECTURE</b> Chair: Chien Ping WU Speaker: Dennis W. CHOI (Washington University School of Medicine, St. Louis, USA) Title: (K-001) Cationic strategies for limiting ischemic neuronal death: new directions	<i>LTB</i>
<b>10:40-11:00</b>	<b>COFFEE BREAK</b>	<i>Academic Concourse</i>
<b>11:00-12:30</b>	<b>ORAL REPORT I</b> (10 minutes presentation and 5 minutes discussion)	
<b>SESSION 1 (A.M.)</b> (Category 1: Membrane excitation and synaptic transmission) Chair: 高天明 and Sookja K. CHUNG		<i>LTC</i>
11:00-11:15	O-1-001 Galanin and its receptors in ascending systems: electrophysiological studies on rats and transgenic mice (Zhi-Qing David XU, Tomas HÖKFELT)	
11:15-11:30	O-1-002 Different effects of toosendanin on perineurial Ca <sup>2+</sup> currents in mouse and frog motor nerve terminals (Jun DING, Tong-hui XU, Yu-liang SHI)	
11:30-11:45	O-1-005 耳蜗外毛细胞的两种胞内钙库 (苏振伦, 孙燕荣, 姜泗长)	
11:45-12:00	O-1-006 脑缺血后海马神经元迟发性死亡的钾信道机制 (高天明)	

**30/7/2001**  
**Monday**  
**Day 2**

12:00-12:15 O-1-007 前额叶皮层内侧区 V-VI 层锥体神经元  
自发性兴奋性突触后电流的特性 (王  
志, 郑平)

12:15-12:30 O-1-004 血管内皮生长因子对急性分离大鼠海  
马神经元延迟外向钾电流的抑制作用  
(徐建义、邓平、张玲妹、孙凤艳)

**SESSION 2 (A.M.)**

*LTE*

**(Category 5: Endocrine, autonomic system and  
neuroimmunology)**

**Chair: Zhuan ZHOU and Ken K. L. YUNG**

11:00-11:15 O-5-001  $Ca^{2+}$  store-induced secretion in single rat  
pancreatic B cells (Xuelin LOU, Xiao  
YU, Zhuan ZHOU)

11:15-11:30 O-5-002 白细胞介素 2 受体、孕激素受体和谷  
氨酸受体在舌下神经核神经元共存 (李  
正莉, 朱长庚, 魏瑛, 刘庆莹)

11:30-11:45 O-5-004 地塞米松对大鼠海马星形胶质细胞的  
影响 (刘仁刚, 周洁萍, 刘云华)

11:45-12:00 O-5-005 寒冷应激诱导的脾脏 NK 细胞活性下  
降和脑内 c-FOS 表达 (郭试瑜, 蒋星  
红, 许爽, 印其章, 久光正)

12:00-12:15 O-5-006 Mitochondrial modulation of neuronal  
excitotoxicity (Conrad C. ALANO,  
Gisela BEUTNER, Kristen M. PIECH-  
DUMAS, Jane C. CHISHOLM, Robert  
A. GROSS, Shey-Shing SHEU)

12:15-12:30 O-5-003 Effect of orphanin FQ on the IL-1 $\beta$   
mRNA in the central nervous system  
(Hui ZHAO, Gen-cheng WU, Xiao-ding  
CAO)

**30/7/2001**  
**Monday**  
**Day 2**

*LTB*

**SESSION 3 (A.M.)**

**(Category 7: Development, senescence, regeneration and injury)**

**Chair: 景乃禾 and David TAY**

- 11:00-11:15 O-7-001 Leukemia inhibitory factor receptor signaling negatively regulates NGF-induced neuronal differentiation of PC12 cells (Wei HE, Yu P. NG, Nancy Y. IP)
- 11:15-11:30 O-7-002 Identification and characterization of a novel gene that is differentially expressed in denervated muscle (Zhe ZHANG, Fanny C.F. IP, Nancy Y. IP)
- 11:30-11:45 O-7-003 Hypoxia induces endothelin system-mediated morphological response in cultured mouse astrocytes (An Ding XU, Kai M. SCHMIDT-OTT, Sebastian TUSCHICK, Lutz LIEFELDT, Susan LYONS, Helmut KETTENMANN, Martin PAUL)
- 11:45-12:00 O-7-004 Expression of mouse reticulon1-C in primary culture of cerebral cortical neurons (Qiang LI, Albert C.H. YU)
- 12:00-12:15 O-7-005 Activation of caspase-3 is delayed following cytochrome c release in axotomized retinal ganglion cells (Z.H. CHEUNG, K.F. SO, H.K. YIP, W. WU)
- 12:15-12:30 O-7-006 Enhanced endogenous expression of pSTAT3 and CNTF in the retina of a rat glaucoma model (J JI, K-F SO, W ELYAMAN, J HUGON, HK YIP, VWH LEE)

**12:30-14:00 LUNCH**

*Staff*  
*Restaurant,*  
*HKUST*

**30/7/2001**  
**Monday**  
**Day 2**

**14:00-15:00 OLYMPUS PLENARY LECTURE**

*LTB*

Chair: Chao-yi LI

Speaker: Nobutaka HIROKAWA (University of Tokyo, Japan)

Title: (K-010) Kinesin superfamily proteins, KIFS and mechanism of organelle recognition and transport in neurons: genes, structure, dynamics, function, and disease

**15:00-16:30 ORAL REPORT II**

**(10 minutes presentation and 5 minutes discussion)**

**SESSION 1 (P.M.)**

*LTC*

**(Category 1: Membrane excitation and synaptic transmission)**

**Chair: 赵子奇 and Rong HUANG**

- 15:00-15:15 O-1-008 Human mesenchymal stem cells differentiate into neuron-like cells (Peng XIANG, Shu-nong LI, Wen-jie XIA, Li-rong ZHANG, Zhen-guang CHEN)
- 15:15-15:30 O-1-009 Modification of dendritic integration associated with the induction of LTP in CA1 pyramidal neurons of rat hippocampal slices (Zhiru WANG, Shumin DUAN, Chien-ping WU, Mu-ming POO)
- 15:30-15:45 O-1-010 Modulation of P2X receptor-mediated inward current by protein kinase C in adult rat dorsal root ganglion neurons (Bi-Hua BIE, Zhi-Qi ZHAO)
- 15:45-16:00 O-1-012 Identification of the critical sites of GIRK for channel activation by the subunits of G proteins (Cheng HE, Xixin YAN, Hailin ZHANG, Tooraj MIRSHAHI, Taihao JIN, Aijun HUANG, Diomedes E. LOGOTHETIS)
- 16:00-16:15 O-1-013 Thiopentone induces insulin secretion in cultured rat pancreatic beta cells (Xiao YU, Qiang XIA, Zhuan ZHOU)

**30/7/2001**  
**Monday**  
**Day 2**

16:15-16:30 O-1-011 Nociceptin inhibits excitatory transmission in rat spinal dorsal horn neurons (Ceng LUO, Eiichi KUMAMOTO, Hidemasa FURUE, Jun CHEN, Megumu YOSHIMURA)

**SESSION 2 (P.M.)**

*LTE*

**(Category 5: Endocrine, autonomic system and neuroimmunology)**

**(Category 6: Advanced function of brain)**

**Chair: 林文娟 and Daisy K.Y. SHUM**

15:00-15:15 O-5-007 Properties of Na<sup>+</sup> channel in single pancreatic beta cells (Xuelin LOU, Liangyi CHEN, Anlian QU, Tao XU, Zhuan ZHOU)

15:15-15:30 O-5-008 支配膀胱的交感神经节内 NPY 能神经元的实验研究 (祝善乐, 范玉华, 殷树仪, 李光千)

15:30-15:45 O-5-009 电刺激小脑顶核对急性脑卒中患者心率变异性的影响 (王艺明, 董为伟)

15:45-16:00 O-5-010 条件反射性抗体增强的动态分析 (陈极寰, 林文娟, 王玮雯, 杨杰, 邵枫)

16:00-16:15 O-6-001 中枢应用尾加压素 II 对大鼠心血管活动、呼吸及体温的影响 (郑长江, 陈蔚, 吕洋, 郑瑞茂, 唐朝枢)

16:15-16:30 O-6-002 长期服用两种多巴胺受体拮抗剂对小白鼠学习记忆及行为的可逆性影响 (王建红, 马原野, 杨建珍, 攸洁)

**SESSION 3 (P.M.)**

*LTB*

**(Category 7: Development, senescence, regeneration and injury)**

**Chair: 刘少君 and Ying-shing CHAN**

15:00-15:15 O-7-007 Enzymatic removal of chondroitin sulfates produced a loss of chronotopic fiber order at the threshold of the optic tract in mouse embryos (Kin-mei LUENG, Sun-on CHAN)

**30/7/2001**  
**Monday**  
**Day 2**

- 15:15-15:30 O-7-008 Axon regrowth of CNS neurons into glial cell repopulated peripheral nerve sheaths (Qi CUI, Margaret A. POLLETT, Giles W. PLANT, Alan R. HARVEY)
- 15:30-15:45 O-7-009 Development of otolith neurons in postnatal rats (Y.S. CHAN, C.H. LAI, H.Y. LAW, Y.C. TSE, Y.K. ZHANG)
- 15:45-16:00 O-7-011 大鼠视皮层神经元电生理学特性与发育的关系 (阴正勤, 涂娅莉, 刘应兵, 高朋芬)
- 16:00-16:15 O-7-012 大鼠早期发育过程中视皮层神经元膜学特性变化及 LTP 的研究 (高朋芬, 阴正勤, 刘应兵, 王仕军, 范惠民)
- 16:15-16:30 O-7-010 Comparative two-dimensional electrophoresis of proteins from transection and regeneration lizard spinal cord (Congjian ZHAO, Fanwen KONG, Shaojun LIU)

**16:30-16:50 COFFEE BREAK**

*Academic  
Concourse*

**16:30-17:45 POSTER SESSION I**  
**Put up poster before 9:00**  
**Author presentation between 16:30-17:45**  
**Remove poster between 19:30-21:30**

*Academic  
Concourse*

- P-2-001 大鼠胃窦部延髓内脏机能调控中枢的定位、定性研究 (王秋桂, 钱月楼, 胡松林)
- P-2-002 Domain splicing of neuronal growth inhibitory factor (Qing-Zhou JI, Bing-Gen RU)
- P-2-003 大鼠扣带束及周围皮质 CGRP 和 SP 的作用研究 (王加真, 张军, 于龙川)
- P-2-004 Expression levels of human butyrylcholinesterase by two silkworm vectors (Wan-Li WEI, Yu-Hui ZANG, Jun-Chuan QIN, Man-Ji SUN)

30/7/2001  
Monday  
Day 2

- P-2-005 Simultaneous antagonism to effects of electroacupuncture on electric activities of pain-related neurons and pain threshold of tail flick in rats by cholecystokinin octapeptide (Man-ying XU, Hai YU, Wei YANG)
- P-2-006 百草枯对 C57BL/6J 小鼠黑质纹状体系统线粒体电子传递系统的影响 (任惠民, 蒋雨平, 丁正同, 彭湘闽)
- P-2-007 PARAQUAT 和 DIALDRIN 对大鼠中脑多巴胺神经元的损害 (蒋雨平, 王坚, 任惠民)
- P-2-008 家蝇去甲肾上腺素释放与拟除虫菊酯抗性的关系 (何远聆, 李梅, 何凤琴, 冯国蕾)
- P-2-009 急性 DIELDRIN 中毒对 C57BL 小鼠纹状体多巴胺及其代谢产物含量的影响 (丁正同, 彭湘闽, 任惠民, 蒋雨平, 王坚)
- P-2-010 BDNF 与 GABA<sub>A</sub> 在转基因果蝇 APPL<sup>sd</sup> 培养神经元发育中的作用 (冯春华, 王顺鹏, 李岩, 郭爱克)
- P-2-011 GAP-43 原核表达载体的构建及在大肠杆菌中的表达 (段小莉, 黄文晋, 宋俊峰, 王百忍, 鞠躬)
- P-2-012 Activation of 5-HT<sub>1B</sub> receptors in the mesolimbic dopamine system increases dopamine release from the nucleus accumbens (Qing-shan YAN)
- P-2-013 Activation of group I metabotropic glutamate receptors in rat striatum induces contralateral rotation (Fang YUAN, Zhong-cheng WANG, Li-xin XU, Tian-you WANG, Ya-zuo ZHANG)

**30/7/2001**  
**Monday**  
**Day 2**

- P-2-014 Activation of muscarinic cholinergic receptors protects cerebellar granule neurons from dopamine-induced apoptosis via ERK pathway (Xue-min WANG, Peng-xin QIU, Xing-wen SU, Wen-ming LI, Shou-jian HUANG, Guang-mei YAN)
- P-2-015 5-HT and hyperosmolar NaCl induce c-FOS expression in NTS and NG (Ying XING, Jin-xia ZHU)
- P-2-016 Age-dependent changes of short-term synaptic depression of monosynaptic EPSP and modulation of mGluR in mice spinal cord (Li YAN, Robert E. BURKE)
- P-2-017 WISTAR 和 SD 大鼠小直径 DRG 神经元电生理特性的差异及其机制的研究 (邓伦斌, 姚磊, 万有, 韩济生)
- P-2-018 Alpha adrenergic receptors on cholinergic and GABAergic neurons of the brainstem and basal forebrain in the rat (Yi-ping HOU, Yan-feng SOONG)
- P-2-019 Connections between serotonergic fibers and terminals and NOS-like immunoreactive neurons projecting to parabrachial nucleus in the nucleus tractus solitarii of the rat (Xiao-rong DANG, Wen-bin ZHANG, Kang-hui XIONG)
- P-2-020 Distinct actions related to ketamine concentration on CA1 pyramidal neurons of adult rat hippocampal slices (Juan JIANG, Meng-Ya WANG)
- P-2-021 Dopamine changes of caudate putamen in rats evoked by intranigra iron infection (Hong JIANG, Wen-fang CHEN, Jun-xia XIE)



30/7/2001  
Monday  
Day 2

- P-2-022 Effect of acupuncture on cardiac sympathetic activity during myocardial ischemia and analysis on the relevant intra-spinal mechanism (Junling LIU, Yonghui GAO, Shuping CHEN)
- P-2-023 多巴胺 D<sub>2</sub>受体 mRNA 分子选择性剪接的检测 (王鲁明, 邢成, 赵永岐, 李敏, 范明)
- P-2-024 脑源性神经营养因子抗体对海马 NOS 阳性神经元的影响 (穆军山, 杨渤生, 李卫平, 姚志彬, 林航)
- P-2-025 Effect of electroacupuncture on gene expression of proinflammatory cytokines in ischemic rat striatum (Jian CHEN, Cheng HUANG, Han-ping CHEN, Jie-shi CHENG)
- P-2-026 单耳堵塞对长爪沙鼠和长翼蝠中脑下丘神经元 GABA 受体密度的影响 (高鸿翔, 孙心德, 李先春, 董丽, 郭宜平)
- P-2-027 单耳堵塞对沙土鼠和长翼蝠中脑下丘神经元 Glu 受体密度的影响 (高鸿翔, 孙心德, 董莉, 李先春, 郭宜平)
- P-2-028 电针对脑缺血大鼠脑内 5-HT 的影响 (李伶俐, 刘敬, 施静, 关新民)
- P-2-029 电场刺激大鼠垂体前叶神经纤维抑制 ACTH 的释放 (高立志, 张万会, 鞠躬)
- P-2-030 食管癌和贲门癌组织中的 能神经支 P-配研究 (吕双红, 周岩, 王国华, 阙海萍, 刘少君)
- P-2-031 Erythromycin administration centrally induced c-FOS expression in PVN (Hong-yan ZHANG, Zhi-sheng GAO, Jian-lin XU, Ming TANG)

30/7/2001  
Monday  
Day 2

- P-2-032 褪黑素受体 MEL 1A, MEL 1B 在大鼠中枢神经系统的分布比较-原位杂交研究 (徐海伟, 李希成, 隋建峰, 黎海蒂)
- P-2-033 Involvement of non-NMDA receptors in the modulation of discharge activity of biphasic expiratory neurons and inspiratory neurons (Bing-Xing PAN, G Ning-QianWAN, Jie DING, Xiao-Wen LI, Shui-Cun CHEN)
- P-2-034 A novel way of sympathetic nerve endings modulating excitability of injured dorsal root ganglion neurons (Hui XU, San-jue HU)
- P-2-035 Identification of cis-acting elements of a neuronal  $\alpha$ -like acetylcholine receptor subunit gene from *DROSOPHILA* (Dongdong MA, Thomas SCHMIDT-GLENEWINKEL)
- P-2-036 Muscarinic acetylcholine receptor regulation of TRP6  $Ca^{2+}$  channel isoforms: molecular structures and functional characterization (Lei ZHANG, David SAFFEN)
- P-2-037 Mutual enhancement of red- and green-cone signals on LHC of carp retina (Fu-jun LUO, Pei-ji LIANG)
- P-2-038 Neuroprotection of caffeine against glutamate -induced apoptosis is mediated by inhibition of MAP kinase in cultured cerebellar granule neurons (Rongbiao PI, Suizhen LIN, Wenming LI, Mingtao LI, Guangmei YAN)
- P-2-039 Pharmacological studies of  $CCK_B$  receptors in rat cerebral cortex (Peng XIANG, Man-ling CHEN)
- P-2-040 Spatio-temporal structure of the integration fields of cat's striate cortical neurons (Gang CHEN, Chao-yi LI)

**30/7/2001**  
**Monday**  
**Day 2**

- P-2-041 The distribution of SP, CGRP and SOM in 5-HT sensitive nodose neurons (Jin-xia ZHU, Ning TANG, Lian-hai ZHANG)
- P-2-042 The expression of nitric oxide synthase in rat basal forebrain (Huai-xing WANG)
- P-2-043 Trigemincerebellar projection neurons express glutaminase-like immunoreactivity (Fu-xing ZHANG , Jin-lian LI, Ji-shuo LI)
- P-2-044 Two distinct types of receptors for substance p in the membrane of rat DRG neurons (Zhi-wang LI, Yun-lei YANG, Xue-lin LOU, Zi-zhen WU, Cai-bing WANG, Cheng-gao YU)
- P-2-045 Xenotransplantation of microencapsulated bovine chromaffin cells into hemiparkinsonian monkeys: analyses of behaviour, biochemistry and pathology (YL XUE, LN WANG, ZF WANG, DG ZHONG, XJ LI, X CUI, XJ MA, Mingwei ZHU, AM SUN)
- P-3-001 光学记录小鼠核和前庭的神经电活动 (杨仕明, 姜泗长, 顾瑞, 杨伟炎, 韩东一, 山下敏夫)
- P-3-002 大鼠甲醛炎症痛及痛过敏时脊髓后角 NOS 的变化及其机制的研究 (曾静波, 李文斌, 李清君, 凌亦凌)
- P-3-003 The activation of afferent fibres elicited by stimulation of cutaneous nerve of adjacent spinal segment (Yan ZHAO, Qi-xin SUN, Shi-hong ZHANG)
- P-3-004 电针抗胃化学性炎性痛的神经化学机制研究 (李琴, 胡道松, 茹立强)
- P-3-005 电针在肠神经系统, 背根节和脊髓水平对盆腔内脏痛的调节作用 (殷光甫, 陈国斌, 林传友, 曹福元, 胡道松, 茹立强)

30/7/2001  
Monday  
Day 2

- P-3-006 胃化学性炎性痛时幽门括约肌酶组化研究 (胡道松, 李琴, 茹立强)
- P-3-007 “气至病所”对病灶所属节段脊髓一氧化氮合酶 (NOS) 阳性神经元数量的影响 (李熯, 施静, 曹福元, 关新民)
- P-3-008 fMRI study on the mechanism underlying the effectiveness of transcutaneous electric acupoint stimulation induced analgesia (Wei-ting ZHANG, Fei LUO, Zhen JIN, Guo-hong CUI, Lei ZHANG, Ya-wei ZENG, Kui-ling ZHANG, Ji-sheng HAN)
- P-3-009 Analgesic effects of intrathecal interleukin-1 (IL-1) in carrageenan rats (Guang-Chen JI, Yu-Qiu ZHANG, Fei MA, Gen-Cheng WU)
- P-3-010 Changes of neurons containing mRNA encoding substance P in the periamillary region of the rat hypothalamus after noxious stimulation to stomach (Yuan-xiang DONG, Sheng-xi WU, Bao-zhen LU, Yun-qing LI)
- P-3-011 Co-existence of calcium-binding proteins with  $\gamma$ -aminobutyric acid or glycine in neurons of the superficial layers of the rat medullary dorsal horn (Wen WANG, Sheng-xi WU, Yun-qing LI)
- P-3-012 Does pulse duration affect intensity sensitivity of inferior collicular neurons of the big brown bat (P H-S JEN, Xiao-ming ZHOU)
- P-3-013 Effects of entopeduncular nucleus on acupuncture and exciting caudate-putamen nucleus-induced analgesia (Guo-ji WU, Zheng-qiu CHEN, Hong SHI)

**30/7/2001**  
**Monday**  
**Day 2**

- P-3-014 Effects of orphanin FQ microinjected into nucleus raphe magnus and nucleus reticularis gigantocellularis on pain modulation and acupuncture analgesia in rat (Zhi-Lan YANG, Yu-Qiu ZHANG, Gen-Cheng WU)
- P-3-015 Electroacupuncture analgesia in orphanin FQ (nociceptin) and opioid receptor-like receptor (ORL<sub>1</sub>) knockout mice (You WAN, Bonnie PENG, Jisheng HAN, John E. PINTAR)
- P-3-016 Involvement of GABAergic interneurons in morphine-evoked antinociception mediated by ventrolateral orbital cortex in rat (Xin HUANG, Jing-shi TANG, Bin YUAN, Hong JIA)
- P-3-017 坐骨神经干上的辣椒素受体参与伤害性信息向脊髓的传递 (冯宇鹏, 杨鲲, 李云庆)
- P-3-018 中脑腹侧被盖区 DA 能通路不参与高频电针的镇痛效应 (史向党, 吴红海, 王玠, 罗非, 韩济生)
- P-3-019 快速形成的慢性痛动物模型 (谢益宽, 谢作磊)
- P-3-020 汉语单字词的形音加工过程的 fMRI 初步研究 (单保慈, 张武田, 唐一源, 马林, 李德军, 曾海宁, 吴义根, 唐孝威)
- P-3-021 The receptive field organization and visual response properties of ectostriatal neurons in the pigeon forebrain (Yong GU, Yuan WANG, Tao ZHANG, Shu-Rong WANG)
- P-3-022 经颈上节和迷走神经的内脏感觉信息传入通路 (张文斌, 熊抗辉, 张宇飞)

30/7/2001  
Monday  
Day 2

- P-3-023 关节炎性大鼠背根神经节 1h 和 SNS 信道 mRNA 表达的时程变化 (邓伦斌, 姚磊, 韩济生)
- P-3-024 脑光学成像揭示的猫视皮层 21a 区对初级视皮层方位功能柱的影响 (黄洛秀, 寿天德)
- P-3-025 脑光学成像显示急性眼内压升高引起视皮层方位功能柱的选择性消失 (陈昕, 孙超, 寿天德)
- P-3-026 猫外膝体神经元非经典感受野各亚区的方位敏感性及其相互关系 (孙超, 陈昕, 寿天德)
- P-3-027 大鼠三叉神经本体觉中枢通路的神经活性物质分布的形态学研究 (李金莲, 陈鹏, 张富兴)
- P-3-028 Melatonin modulates GABA<sub>A</sub> receptor-mediated currents on isolated carp retinal neurons (Geng-Lin LI, Ping LI, Xiong-Li YANG)
- P-3-029 Interaction between electroacupuncture analgesia and excitatory amino acid receptor antagonists in rat model of inflammatory pain (Yu-qiu ZHANG, Guang-chen JI, Zhi-qi ZHAO, Gen-cheng WU)
- P-3-030 Neomycin blocks capsaicin-evoked response and tetrodotoxin-resistant sodium channel in rat dorsal root ganglion neuron (Yu ZHOU, Zhi-Shang ZHOU, Zhi-Qi ZHAO)
- P-3-031 Neural inhibition sharpens auditory spatial selectivity of bat inferior collicular neurons (Xiao-ming ZHOU, P H-S JEN)
- P-3-032 水沟—承浆穴荧光示踪初步观察 (帅建中, 蔡维君, 梅璞, 罗学港)

**30/7/2001**  
**Monday**  
**Day 2**

- P-3-033 Presynaptic excitatory action of naloxone on excitatory synaptic transmission in the supraoptic nucleus of rats after chronic morphine treatment (Xiao-bin WANG, San-jue HU, You-sheng JIA, Gong JU)
- P-3-034 Projection of serotonergic neurons to the trigeminal motor nucleus and sensory nucleus (Fa-sheng TAO)
- P-3-035 Relationship between acupuncture analgesia and MET-enkephalin or dynorphin (Yilin WANG, Alan S TSOGOEV, Jinglan WU)
- P-3-036 Serotonergic and neurotnergic collateral projections of the dorsal raphe nucleus in the rat (Hui LI, Yun-qing LI)
- P-3-037 The effect of sound intensity on duration tuning characteristics of bat inferior collicular neurons (Xiao-ming ZHOU, P H-S JEN)
- P-3-038 The positive and negative bold fMRI response in rat after pain stimulation (Guang LU, Xuejun SUN, Zhiqi ZHAO, Chaohui YE, Maili LIU)
- P-3-039 NO 对单足致炎大鼠双侧脊髓背角神经元 FOS 表达的影响 (李丽, 李青锦, 张炳熙, 吕国蔚)
- P-4-001 Changes of acetylcholine-related proteins in facial motoneurons after axotomy and anastomosis (Lian-jun LU, Sheng-xi WU, Jian-hua QIU, Jin-ling WANG, Wei-guo HUANG, Shun-li LIU, Yun-qing LI)
- P-4-002 Cholinergic mechanism in the drinking behavior and c-FOS expression in brain induced by subfornical organ stimulation in rats (Xing-Hong JIANG, Xu-Ping LI, Jin-Hua LI, Xiao-Ou ZHOU, Zhi-Ce XU)

**30/7/2001**  
**Monday**  
**Day 2**

- P-4-003 大鼠前额叶-基底节系统在反应时间任务中的神经元集群放电(罗非, 张景渝, 韩济生, Donald J. WOODWARD)
- P-4-004 简单和序列手指运动的事件相关脑功能成像实验 (贾富仓, 张敏鸣, 祝一虹, 臧玉峰, 翁旭初)
- P-4-005 Functional organization of the primary motor cortex characterized by event-related fMRI (Yufeng ZANG, Fucang JIA, Xuchu WENG, Enzhong LI, Shengzhong CUI, Yufeng WANG, Eliot HAZELTINE, Richard IVRY)
- P-4-006 Involvement of spinal somatostatin receptor SST2A in inflammation-induced thermal hyperalgesia: morphological and behavioral study (Ping SONG, Jiangyuan HU, Zhi-qi ZHAO)
- P-4-007 Mapping human cortical areas associated with movement preparation and execution (Yihong ZHU, Minming ZHANG, Desheng SHANG, Lingxiang RUAN, Qidong WANG, Xuchu WENG, Eliot HAZELTINE, Richard IVRY)
- P-4-008 Modulation of estrogen on behavior and dopamine release in amygdala of rats (Jun-xia XIE, Bin LIU)
- P-4-009 The effects of embryonic motoneurons transplanted into tibial nerves on denervated muscle atrophy (Huaqiao WANG, Shuifa PEN, Xiaoling LU)
- P-4-010 Neuronal origin of cerebellar afferents from motoneurons innervating muscles for head and neck movements: experimental study with double retrograde axonal transport of fluoro-gold and micro-ruby (Suda SAOSUDCHAT, Naiphinich KOTCHABHAKDI, John A. RAWSON)



**30/7/2001**

**Monday**

**Day 2**

*Staff*

*Restaurant*

*HKUST*

**17:45-19:30 DINNER**

**19:30-21:30 WORKSHOPS**

- |             |           |   |            |
|-------------|-----------|---|------------|
| 19:30-20:30 | SESSION A | Digital Imaging for Biological application I<br>Chinetek Scientific   | <i>LTB</i> |
| 19:30-20:30 | SESSION B | Advance in microelectrode recording techniques<br>Bioprobes Limited   | <i>LTC</i> |
| 19:30-20:30 | SESSION C | Fluorescence microscopy: powerful tools with many applications: combined imaging, photometry & patch clamp technique<br>Bioprobes Limited           | <i>LTE</i> |
| 20:30-21:30 | SESSION D | Digital Imaging for Biological application II<br>Chinetek Scientific  | <i>LTB</i> |
| 20:30-21:30 | SESSION E | Multi-Electrode Array recording and the "Robo-ocyte" high performance tools for neuroscience research and functional screening<br>Bioprobes Limited | <i>LTC</i> |
| 20:30-21:30 | SESSION F | Advanced patch-clamp techniques for neuroscience research<br>InBio Life Science Instruments Co., Limited  | <i>LTE</i> |

**31/7/2001**

**Tuesday**

**Day 3**

**8:30-9:30**

**PLENARY LECTURE**

*LTA*

Chair: Ying-Shing CHAN

Speaker: Qun-Yuan. XU (Capital University of Medical Sciences, Beijing, China)

Title: (K-003) The experimental study on gene therapy of animal models of parkinsonism

**9:30-12:35**

**ORAL REPORT III**

**(10 minutes presentation and 5 minutes discussion)**

**SESSION 1 (A.M.)**

*LTC*

**(Category 2: Neurotransmitter, neuromodulator and receptor)**

**Chair: Pei-ji LIANG and Richard A. COLLINS**

9:30-9:45 O-2-001 Cholecystokinin induces  $[Ca^{2+}]_i$  signaling by activation of voltage-sensitive calcium channel in cultured myenteric neurons (Weizhen ZHANG, Michael W MULHOLLAND)

9:45-10:00 O-2-002 AGRIN-MuSK signaling mediates presynaptic differentiation (Xiaohua XU, Amy K.Y FU, Jiangteng LU, Chien-ping WU, Mu-ming POO, Shumin DUAN, Nancy Y. IP)

10:00-10:15 O-2-003 Connexin 43 expression in cultured astrocytes exposed to high  $K^+$  concentration or glutamate (Hai-yan CAO, Yue-hua ZHANG, Yu-wu JIANG, Xi-ru WU)

10:15-10:30 O-2-004 The dopamine differentially modulates R/G HC'S responses to red and green light stimulus (Yu LIU, Pei-ji LIANG)

10:30-10:45 O-2-005  $D_4$  dopamine receptor differentially regulates Akt/ NF- $\kappa$ B and ERK pathways in  $D_4$ MN9D cells (Xuechu ZHEN, Jie ZHANG, Gerard P. JOHNSON and Eitan FRIEDMAN)

**10:45-11:05 COFFEE BREAK**

*Academic  
Concourse*

31/7/2001  
Tuesday  
Day 3

- 11:05-11:20 O-2-006 不同营养条件对禽类下丘脑神经肽 Y 的影响 (彭克美, 戴博杰, 唐文花)
- 11:20-11:35 O-2-007 同一心内神经元酪氨酸羧化 的基因表达与贮存—原位杂交/免疫组化法研究 (李光千)
- 11:35-11:50 O-2-008 Effects of I.C.V. injection of OFQ on the release of  $\beta$ -endorphin and expression of POMC mRNA in formalin-induced pain (Jin-Lan WANG, Yan-Qing WANG, Xiao-Ding CAO, Gen-Cheng WU)
- 11:50-12:05 O-2-009 情绪性应激对中国地鼠下丘脑神经肽的影响及其与血糖增高的关系 (姚树桥, 邹涛, 吴大兴, 孙海霞)
- 12:05-12:20 O-2-010 芍药根提取物对大鼠海马 CA1 区锥体神经元膜离子信道和受体的调控 (董先平, 徐天乐)
- 12:20-12:35 O-2-011 Ionic channels, action potentials and secretion in adrenal chromaffin cells (Kailai DUAN, Chen ZHANG, Lin-Lin HE, Xiao-Ke CHEN, Christopher J. LINGLE, Zhuan ZHOU)

**SESSION 2 (A.M.)**

**(Category 6: Advanced function of brain)**

**(Category 8: Nervous system diseases)**

**Chair: 周江宁 and Zhenguo WU**

*LTE*

- 9:30-9:45 O-6-003 麻醉状态猕猴大脑前额叶声探测性诱发电位与动物意识相关性研究 (齐华, 田绍文, 马原野, 王建红, 杨建珍)
- 9:45-10:00 O-6-004 The retrieval and encoding of episodic memory in normal aging and patients with mild cognitive impairment (Qing-Song WANG, Song QIN, Jiang-Ning ZHOU)
- 10:00-10:15 O-8-001 ALZHEIMER 早期神经病理改变与脑脊液松果体素水平降低有关 (刘荣玉,

周江宁, D.F. SWAAB)

**31/7/2001**  
**Tuesday**  
**Day 3**

10:15-10:30 O-8-004 Comparison of three neurodegenerative animal models induced by mitochondrial deficit (Lan ZHANG, Lin LI, Ru-yi ZHANG, Cui-fei YE, Li ZHANG)

10:30-10:45 O-8-005 An initial lateralized temporal lobe epileptogenic insult possibly leading to hippocampal abnormalities in electrogenic rat epilepsy model (Dan HAN, Xianrong ZHANG, Shijin YIN, Ying ZHANG, Yuefeng TANG, Yunhuang YANG, Maili LIU)

**10:45-11:05 COFFEE BREAK**

*Academic  
Concourse*

11:05-11:20 O-8-006 血管性痴呆与计算损伤: 一个个案研究 (张亚旭, 周晓林, 贾建平, 周卫东, 杨炯炯)

11:20-11:35 O-8-007 Differential display and DNA microarray analysis of acute and chronic morphine-dependent SH-SY5Y human neural cells (Haoran WANG, Xiangrong GAO, Yan-hua HUANG, Tan LI, You WAN, Xiaomin WANG, Ji-sheng HAN)

11:35-11:50 O-8-008 Axonal aggregate formation is associated with selective neurodegeneration in early Huntington's disease (He LI, Xiao-Jiang LI, Shi-Hua LI, Peggy SHELBOURNE)

11:50-12:05 O-8-009 外周 2/100Hz 电针刺激抑制吗啡戒断大鼠中枢 nNOS 的表达 (崔彩莲, 吴鑾楨, 马勤耘, 韩济生)

12:05-12:20 O-8-010 Brain injury and long term effect of seizure in the developing rat (Yu-wu JIANG, Guo-jun ZHANG, Xi-ru WU)

12:20-12:35 O-8-003 Presenilin-1 association with neurofibrillary tangles in Alzheimer's disease (Cuiqing ZHU, Guizheng DU, Fengyan SUN)

31/7/2001  
Tuesday  
Day 3

LTA

**SESSION 3 (A.M.)**

**(Category 7: Development, senescence, regeneration and injury)**

**Chair: 周嘉伟 and M. ZHAO**

- 9:30-9:45 O-7-013 Demonstration of tyrosine-hydroxylase-positive apoptotic neurons in adult substantia nigra although total nigral neuronal numbers remain constant during the life span of male C57B./6 mice (M. ZHAO, S. MOMMA, K. DELFANI, C.B. JOHANSSON, J. FRISEN, A.M. JANSON)
- 9:45-10:00 O-7-016 Apoptosis and expression of hsp70 and NF- $\kappa$ B in ischemia cortex of rat brain after acute intracranial haemorrhage (Jinqi ZENG, Zefeng PENG, Lei PAN)
- 10:00-10:15 O-7-017 在帕金森氏病大鼠纹状体中差别表达的基因和蛋白的研究：它们与纹状体的神经营养活性相关吗 (周嘉伟)
- 10:15-10:30 O-7-018 外周神经损伤后在大鼠脊髓胶状质存在有髓传入纤维的生长 (鲍岚, 王挥, 童永光, 蔡海江, 陆莹瑾, Gunnar GRANT, Tomas HOKFELT, 张旭)
- 10:30-10:45 O-7-019 大鼠局限性脑缺血及再灌注磁共振弥散加权像的早期连续动态观察 (易黎, 张新江, 刘买利, 卢广)
- 10:45-11:05 COFFEE BREAK**
- 11:05-11:20 O-7-020 脑缺血大鼠海马 CA<sub>1</sub> 区 NMDA 受体变化的研究 (冯志博, 陈子琰, 李峰)
- 11:20-11:35 O-7-021 累加电针对脑缺血损伤的保护作用 (陈英辉, 黄显奋)
- 11:35-11:50 O-7-022 Effects of IGFS and bFGF on the development of human fetal cerebral neurons in vitro (Xue-qian YIN, Xhi-ling PANG, Lan-ying LI)

*Academic  
Concourse*

31/7/2001  
Tuesday  
Day 3

- 11:50-12:05 O-7-023 Effects of nerve growth factor on crushed sciatic nerve regeneration in rats (Bojun YUAN, Guocai LU, Junping LIU, Hao WU)
- 12:05-12:20 O-7-014 大鼠、猕猴脊髓全横断损伤后修复和功能恢复的研究 (孔繁文, 曹卫红, 常红星, 王国华, 阙海萍, 张保民, 刘少君)
- 12:20-12:35 O-7-015 大鼠脑出血的核磁共振成像研究 (孙学军, 刘买利, 李丽云, 叶朝辉)

**Special topics I**

1403

**Chair: 赵子奇 and Hannah Hong XUE**

- 9:30-10:00 O-2-023 Up-regulation of 5-HT<sub>2B</sub> receptor density and receptor-mediated glycogenolysis in mouse astrocytes by long-term fluoxetine administration (Ebenezer KONG, **Liang PENG**, Ye CHEN, Albert C.H. YU, Leif HERTZ)
- 10:00-10:30 O-2-024 <sup>14</sup>C-glutamate uptake in astrocytes does not depend on glycolysis (**Rong HUANG**, Leif HERTZ, Liang PENG, Albert C.H. YU)

**10:45-11:05 COFFEE BREAK**

*Academic  
Concourse*

- 11:05-11:35 O-2-021 Gene therapy of nitric oxide synthase for cerebrovascular disease (**Alex F. CHEN**, Zvonimir S. KATUSIC)
- 11:35-12:05 O-9-003 14-3-3 $\gamma$  regulates the functions of GFAP (**Jianguo CHEN**, Albert C.H. YU)
- 12:05-12:35 P-7-006 成年哺乳动物神经干细胞分离培养的一种新方法/May mature neuron divide invitro?  
(林秋霞, 王国华, 刘少君)

**12:35-14:00 LUNCH**

*Staff  
Restaurant,  
HKUST*

31/7/2001  
Tuesday  
Day 3

**14:00-15:00 HK DNA CHIPS PLENARY LECTURE**

*LTB*

Chair: Ji-sheng HAN  
Speaker: Leif HERTZ (University of Saskatchewan, Saskatoon, Canada; Hong Kong DNA Chips Ltd., Hong Kong, China.)  
Title: (K-004) Role of astrocytes in normal brain function

**15:00-16:30 ORAL REPORT IV  
(10 minutes presentation and 5 minutes discussion)**

**SESSION 1 (P.M.)**

*LTC*

**(Category 2: Neurotransmitter, neuromodulator and receptor)**

**Chair: 徐天乐 and Qun-yuan XU**

- 15:00-15:15 O-2-012 Modulatory actions of nitric oxide on adult rat supraoptic nucleus neurons: cellular electrophysiological study *in vitro* (Meng-Ya WANG, Zhen-Jiang YANG, Hong-Ping HUANG, E SHEN)
- 15:15-15:30 O-2-014 Immunohistochemical localization of neurokinin B receptor (NK3r) in gastrointestinal tract of mouse (Hong WANG, Yuan-qiang ZHANG, Yu-qiang DING)
- 15:30-15:45 O-2-016 Sequence of junction fragment of exon 51 deletion of dystrophin gene (Cheng ZHANG, Su Yue PAN, Zuolin LIU)
- 15:45-16:00 O-2-015 Rapid modulation of glucocorticoid on the cholinergic synaptic transmission of B neurons in bullfrog sympathetic ganglia (Bei MA, Bao-Ren XING, Bi-Da YI, Zhi-ping ZHOU)
- 16:00-16:15 O-2-013 Morphological evidence for involvement of tachykinin-tachykinin receptors in anti-neurodegeneration of central monoaminergic neurons: an experimental study in the rat (Liang-Wei CHEN)

31/7/2001  
Tuesday  
Day 3

16:15-16:30 O-2-017 The effect of caffeine on LY294002-induced apoptosis in cerebellar granule neurons (Wenya WANG, Mingtao LI, Guangmei YAN)

**SESSION 2 (P.M.)**

*LTE*

**(Category 8: nervous system diseases)**

**Chair: 江开达 and 王晓民**

15:00-15:15 O-8-011 交叉性小脑失联络 PET 初步研究 (马云川, 张琳瑛, 苏玉盛, 李德鹏, 尚建文)

15:15-15:30 O-8-014 电针治疗部分损伤帕金森病大鼠的实验研究 (王晓民, 梁希彬, 刘贤宇, 张旺明, 李丰桥, 韩济生)

15:30-15:45 O-8-015 Effects of the hippocampal synaptic reorganization and BDNF on the pathogenesis of epilepsy (Xi-ru WU, Shi-Gang ZHAO)

15:45-16:00 O-8-016 老年性痴呆 PET/FDG 影像脑区相关性分析 (曾海宁, 马云川, 李德鹏, 单保慈, 吴义根, 唐孝威)

16:00-16:15 O-8-012 甲基氰钴胺治疗多发性硬化的实验研究 (李丹, 伍期专)

16:15-16:30 O-8-013 脑啡肽促癫痫发作敏感性形成的 $\mu$ 型受体机制 (刘辉, 宋瑗宏, 张万琴, 洪昭雄)

**SESSION 3 (P.M.)**

*LTB*

**(Category 7: Development, senescence, regeneration and injury)**

**Chair: 沉馨平 and 罗学港**

15:00-15:15 O-7-025 Effect of the combination of acupuncture and taurine on transient cerebral ischemia in rat (Jing-chun GUO, Rong LI, Jie-shi CHENG)

15:15-15:30 O-7-026 急性实验性局限性脑缺血早期磁共振质子波谱分析与研究 (张苏明, 易黎, 张新江, 刘买利, 卢广)



**31/7/2001**  
**Tuesday**  
**Day 3**

15:30-15:45 O-7-027 缺血神经元 DNA 损伤与修复机制的研究 (杨渊, 张苏明, 方思羽, 张旻)

15:45-16:00 O-7-028 Either CDC42 and RHOA mediated nerve growth cone turning induced by diffusible factors (Xiao-bing YUAN, Ming JIN, Xiao-hua XU, Chien-ping WU, Mu-ming POO, Shumin DUAN)

16:00-16:15 O-7-029 CPT-cAMP 对金黄地鼠视网膜节细胞再生作用的研究 (朱心红, 李海标)

16:15-16:30 O-7-024 吗啡备用根大鼠脊髓组织神经营养活性物质的分离纯化和生物活性测定 (李春燕, 曾园山, 顾熊飞, 陈穗君)

**16:30-16:50 COFFEE BREAK**

*Academic  
Concourse*

**16:30-17:45 POSTER SESSION II**

**Put up poster before 9:00**

**Author presentation between 16:30-17:45**

**Remove poster between 19:30-21:30**

*Academic  
Concourse*

P-7-001 Visual deprivation alters the morphology of glial fibrillary acidic protein-immunoreactive astrocytes in the rat brain (Zhi-jun YANG, Zhi-ren RAO, Jian-yong QIU, Li DUAN, Liang-wei CHEN)

P-7-002 The effects of BDNF and NT-3 on NOS- or AChE-positive neurons in rat spinal cord cultures (Haixia HUANG, Jianxin GAO, Kejing LIU)

P-7-003 The characteristic cell unit discharges related to epilepsy recorded synchronously from dual hippocampi induced by tetanization into the right dorsal hippocampus in rats (Shijin YIN, Dan HAN, Li LI)

31/7/2001  
Tuesday  
Day 3

- P-7-004 Up-regulation of PERK1/2 and FOS in spinal cord after rat dorsal roots nerve transection (Xi-Ping CHENG, Bai-Ren WANG, Si-Wei YOU, Hui-Ling LIU, Wen-Jin HUANG, Gong JU)
- P-7-005 Role of intracellular calcium in neuronal migration (Hua-tai XU, Xiao-bing YUAN, Shu-min DUAN, Mu-ming POO, Lin-yin FENG)
- P-7-007 携带双基因的腺病毒伴随病毒载体构建及应用用于帕金森病基因治疗的研究 (牛东滨, 张旺明, 徐峰, 薛冰, 王晓民, 韩济生)
- P-7-008 低氧预处理提高下丘脑细胞缺氧耐受性与  $\text{Na}^+$ 、 $\text{K}^+$  电流的关系 (吴丽颖, 刘卫, 丁爱石, 王福庄, 范明)
- P-7-009 非洲爪蟾卵母细胞内源性 GABA 激活电流 (杨青, 李之望, 魏劲波)
- P-7-010 芳香化酶在神经干细胞及其早期分化中的表达 (肖岚, 李巍, 蔡文琴, 周向东)
- P-7-011 Is there always an astrocytic scar at the lesion site after spinal cord transection (Hui-ling LIU, Hao YANG, Bing-yao CHEN, Si-wei YOU, Gong JU)
- P-7-012 Novel autophosphorylated membrane proteins in aged murine brain studied by proteomics (Qinxue DING, Yufeng JIA, Congjian ZHAO, Shaoxiang XIONG, Yaojun GUO, Suqian JIN, Shaojun LIU)
- P-7-013 褪黑素对体外培养成年大鼠神经干细胞分化的影响 (胡黎平, 谢富康)
- P-7-014 利用流式细胞仪检测短暂部分脑缺血大鼠脑内细胞凋亡率及 Bax、Bcl-2 蛋白表达 (张静, 刘敬, 施静, 关新民)

31/7/2001  
Tuesday  
Day 3

- P-7-015 金黄地鼠视皮层生后发育中 NADPH-DIAPHORASE 活性的变化 (肖悦梅, 徐颖, 张月婷, 王连红, 苏国辉, 邓拱秋, 习云程)
- P-7-016 腺病毒介导 BDNF, NT3 基因对噪音引起的听力损伤的保护作用研究 (陈谦, 郭维维, 吴燕, 刘红, 刘淑红, 翟所强, 汪家政, 范明)
- P-7-017 GDNF promotes survival and induces differentiation through the phosphatidylinositol 3-kinase and mitogen-activated protein kinase pathway respectively in PC12 cells (Zhe-Yu CHEN, Yan-Feng CHAI, Chang-Lin LU, Cheng HE)
- P-7-018 成年鼠神经前体细胞在移植胚胎鼠脑中的迁移和分化 (彭卫民, 于丽丽, 左明雪)
- P-7-019 Evidence for a novel neurotrophic factor for dopaminergic neurons present in apomorphine-treated fetal ventral mesencephalic cultures (Hong GUO, Yi YU, Lei XU, Jia-wei ZHOU)
- P-7-020 小续命汤对全脑缺血后大鼠海马 CA1 区神经元的保护作用 (朱心红, 陈素云, 丁洁, 高天明)
- P-7-021 二氢石蒜碱对脑缺血复灌后生化指标变化的影响 (任世兰, 赵国举, 黄永章, 王星文, 代荣晓)
- P-7-022 电针对脑缺血再灌注大鼠脑内 Bax, Bcl-2 表达的影响 (刘晓春, 张京钟, 施静, 关新民)
- P-7-023 电针对脑缺血再灌注神经元损伤的保护作用机制探讨 NMDAR1 mRNA 与 CLABINDIN-D<sub>28K</sub> 研究 (施静, 张京钟, 刘晓春, 张静, 关新民)

31/7/2001  
Tuesday  
Day 3

- P-7-024 Effect of neuregulin on neural stem cells (Li-min SHEN, Chang-hong ZHENG, Chen LAI, Lin-yin FENG)
- P-7-025 皮质酮可能通过蛋白激酶 C 途径诱导原代培养海马神经元的损伤 (王雪琦, 吴爱群, 路长林)
- P-7-026 Effects of tetanization into caudate-putamen or corpus callosum on the hippocampal depth electrographs in rats (Xianrong ZHANG, Dan HAN, Wei FAN)
- P-7-027 神经生长因子对皮质酮致原代培养皮层神经元凋亡的保护作用及其机制 (郑兴东, 王雪琦, 赵小林, 娄淑杰, 路长林)
- P-7-028 GBE50 预防实验大鼠局部脑缺血再灌注损伤的研究 (潘家祜, 刘实晶)
- P-7-029 GDNF 基因治疗穹窿海马伞损伤大鼠 AD 模型 (王传恩, 阮奕文, 柯尊记, 姚志彬, 郭辉玉)
- P-7-030 H<sub>2</sub>O<sub>2</sub> 诱导转 SWEDISH 突变基因的 B103 细胞凋亡后 APP 代谢的研究 (张旻, 张苏明, 何池中, 孙小燕)
- P-7-031 KMBZ-009 对老年沙土鼠短暂性脑缺血再灌后海马氨基酸递质含量的影响 (余嗣明, 蔡景霞)
- P-7-032 Na<sup>+</sup>信道阻断剂对应激去势大鼠海马神经细胞的保护作用 (朱忠良, 韩太真, 唐敬师)
- P-7-033 NGF 基因治疗穹窿海马伞损伤大鼠 AD 模型 (王传恩, 阮奕文, 柯尊记, 姚志彬, 新辉玉)
- P-7-034 低氧预适应提高脑细胞耐缺氧能力的作用及其机制 (王福庄, 赵彤, 丁爱石, 于顺, 吴丽颖, 范明)

31/7/2001  
Tuesday  
Day 3

- P-7-035 6-hydroxydopamine-induced apoptosis in PC12 cells and its probable molecular mechanism (Qin XIAO, Juan RONG, Sheng-di CHEN, Biao LI, Zhen-guo LIU)
- P-7-036 TRAIL 的小分子化改构及其诱导胶质瘤细胞凋亡的信号转导 (郑黎燕, 冯健男, 关良, 阙海萍, 刘少君)
- P-7-037 二氢石蒜碱对脑组织缺氧缺血时脑电变化的拮抗作用 (赵国华, 任世兰, 刘忠武, 于龙顺, 张秋芳, 代荣晓, 龚应霞)
- P-7-038 脊髓损伤大鼠皮层感觉运动区神经组织多种结构、功能基因表达的变化 (吕艺, 刘淑红, 葛学铭, 吴燕, 刘经, 范明)
- P-7-039 同源盒基因 Lhx 4 在成年大鼠外周和中枢神经损伤后的表达变化 (葛学铭, 刘淑红, 吕艺, 林红, 刘红, 吴燕, 陈谦, 范明)
- P-7-040 大鼠外周神经损伤后初级感觉神经元中 GABA<sub>A</sub> 受体亚基组成改变的研究 (张方雄, 陆莹瑾, 肖华胜, 鲍岚, 金善学, 张旭)
- P-7-041 大鼠外周神经损伤后海马内基因表达的可塑性研究 (陆莹瑾, 张方雄, 肖华胜, 鲍岚, 金善学, 张旭)
- P-7-042 Developmental expression of NOGO-A mRNA and protein in rat spinal cord (Weilin JIN, Ying WANG, Hao YANG, Xiying JIAO, Gong JU)
- P-7-043 大鼠脑和脊髓神经干细胞的生物学特性比较 (富赛里, 马政文, 尹岚, 吕晓斌, 陆佩华, 徐晓明)
- P-7-044 中药 968 对神经元的营养保护作用及机制研究 (李丰桥, 田如锦, 程晓馨, 何其华, 单秀, 王晓民, 韩济生)

**31/7/2001**  
**Tuesday**  
**Day 3**

- P-7-045 Different expression of CHAT, NGFR and NOS in the fetal basal forebrain neurons transplanted into the hippocampus of rats (Qi Jiang YANG, Zhi Bin YAO, Yao XIE)
- P-7-046 DNA damage in lymphocytes from patients with neurodegenerative diseases and medicine intervention (Wen-lin AN, Lin LI, Piao CHEN, Cui-fei YE, Jing-hua PIAO)
- P-7-047 Bromodeoxyuridine incorporation in DNA of damaged neurons induced by ischemia in adult mouse brain (Peng-Chong LIU, Ya-Lin HUANG, Yan LIU, Feng-Yan SUN)
- P-7-048 Treatment mechanism of antisense oligodeoxynucleotides to NMDA-R1 receptor on cerebral infarction in rats (Yunfu WANG, Chuancheng REN, Guangming XI)
- P-7-049 GPI-1046 stimulates chick DRG neurite outgrow in presence of low concentration of NGF in medium (Xin LI, Haiping QUE, Song LI, Shaojun LIU)
- P-7-050 Implanted schwann cells promote neuronal survival and expression of nitric oxide synthase in clarke's nucleus after hemisection of spinal cord in adult rat (Y, Q. ZHANG, Y.S. ZENG, H.B. LI, C.Q. LUO)
- P-7-051 Magnetic stimulation accelerate rehabilitation of peripheral nerve injury (Bannaga AHMED, Ticheng GUO, X.B. Ou YANG, D.S. HU, C.Y. LIN, F.Y. CAO, Yun Ping DENG, Zheng Cheng GUO)

31/7/2001  
Tuesday  
Day 3

- P-7-052 The effect of APP17-MER peptide on neuronal apoptosis in d-galactose induced aging of murine brain (Yongmei ZHAO, Zhiwei ZHAO, Zhijuan JI, Shuli SHENG)
- P-7-053 Studies on BDNF and NT-3 promoting survival and development of fetal rat spinal cord neurons in vitro (Jianxin GAO, Haixia HUANG, Kejing LIU)
- P-7-054 The experimental study on nerve fiber regeneration in scar area after myocardial infarction (Hongjie XUE, Jiahui XU, Linghui ZHAO, Chunsheng NIE, Chunhong XIU)
- P-7-055 黄芪和硫酸锌对脑缺血再灌注脑区 SOD、MDA、水和钙含量的影响 (薄爱华, 陈晓春, 邢立强, 李永明)
- P-7-056 NT-4 基因修饰肌细胞对大鼠脊髓损伤后神经轴突再生的作用 (侍坚, 张凯华, 陆佩华, 徐晓明)
- P-7-057 脑挫伤的形态变化及丹参对其治疗作用的研究 (张辉, 齐效勇, 薛贵平, 邢立强)
- P-7-058 脑预缺血诱导脑缺血耐受形成过程中腺苷受体的变化 (李文斌, 李清君, 周爱民, 陈晓玲)
- P-7-059 Development of NADPH-diaphorase positive amacrine cells in the retina of postnatal hamsters (David TAY, Yun-cheng DIAO, Yue-mei XIAO, Kwok-fai SO)
- P-7-060 中药 SSY 植化分离的药效学导向评价及其有效组分的药理机制研究 (李林, 朴景华, 楚晋, 张兰, 安文林)

31/7/2001  
Tuesday  
Day 3

- P-7-061 大鼠发育过程中视皮层神经元电生理和形态学特性的相关性研究 (涂娅莉, 刘应兵, 阴正勤, 王仕军)
- P-7-062 Effects of chronic constriction injury on nociceptin and prepronociceptin mRNA expression in rat spinal dorsal horn (Fei MA, Yan-Qing WANG, Guang-Chen JI, Gen-Cheng WU)
- P-7-063 多巴胺受体激动剂和拮抗剂促进神经干细胞向神经元分化 (郭宏, 唐仲书, 周嘉伟)
- P-7-064 脑活素激发细胞内钙升高介导神经毒性 (林穗珍, 李晓瑜, 欧阳颖)
- P-7-065 脑 多 肽 ( CEREBRAL POLYPEPTIDES) 对局灶性脑卒中 C-JUN 基因表达的影响 (杨建芳, 周柏玉, 张惠兰, 杨天祝, 粟秀初)
- P-7-066 幼年大鼠前脑存在增殖细胞核抗原 (PCNA) 阳性细胞 (王树兴, 姚志彬, 程树军, 黄韧)
- P-7-067 Effect of electroacupuncture on neurotrophic factors following transient focal cerebral ischemia in rats (Rong LI, Yan-wei OU, Jinng-chun GUO, Jie-shi CHENG)
- P-7-068 单耳堵塞对大鼠出生后发育过程听皮层神经元 NMDA 受体亚单位 mRNA 表达的影响 (卢静萍, 孙心德, 崔一蕾, 杨弘彦, 吴芳, 董素珍, 毕彩霞)
- P-7-069 Effects of nerve growth factor on regeneration of cortical cholinergic fiber following injury in aged rats (Dahong LONG, Dadi YANG, Xiumei LUO, Lepeng HONG, Mongjie XU, Wotang LI)



31/7/2001  
Tuesday  
Day 3

- P-7-070 A focal cerebral ischemia model by reversible middle cerebral artery occlusion in monkeys (Huanmin GAO, Jingchun GUO, Peng ZHAO, Jian CHEN, Ping GAN, Yan XIA, Yuenan SUN, Jieshi CHENG)
- P-7-071 A macrophage-derived factor stimulates axon growth in mature rat retinal ganglion cells in vivo and in vitro (Yuqin YIN, Yiming LI, Nina IRWIN, Larry BENOWITZ)
- P-7-072 二氢石蒜碱对大鼠海马脑片缺氧缺糖损伤的影响 (张秋芳, 刘忠武, 赵国举)
- P-7-073 人血小板源生长因子 A 链 (PDGFA) 的克隆、表达与纯化 (张萍, 费玲玲, 黄文晋, 陈宾复, 鞠躬)
- P-7-074 Combination therapy with methylprednisolone and brain-derived neurotrophic factor enhances motor axonal regeneration and hindlimb activity after spinal cord injury (Li-xin LI, Yuanling LEE, Lawrence F. ENG)
- P-7-075 Gene-expression profile of the rat hippocampus following entorhinal cortex lesion (Cheng HUANG, Guo-Xin YING, Xin LIU, Wen-Yuan WANG, Zhi-Hua JIANG, Chang-Fu ZHOU)
- P-7-076 神经营养因子受体在脊髓横断后中枢神经系统内表达的时空模式 (聂笃余, 邓盘月, 蔡维君, 罗学港)
- P-7-077 抗 BDNF 血清对小鼠坐骨神经损伤后脊髓与背根节内突触素表达的影响 (李昌琪, 伍校琼, 罗学港)
- P-7-078 脑缺血再灌海马 CA1 区 Bax、Bcl-2 和 CASPASE-3 表达的免疫组织化学研究 (金道忠, 刘正清)

31/7/2001  
Tuesday  
Day 3

- P-7-079 Survival and differentiation of embryonic stem cells following transplantation into the lateral ventricle of rats (Jin-hao SUN, Zhen-gang YANG, Lin YANG, Ying-mao GAO)
- P-7-080 The basic fibroblast growth factor and epidermal growth factor affect the outgrowth and differentiation of embryonic neural stem cells (Zhen-gang YANG, Jin-hao SUN, Xi-qing CHAI, Lin YANG, Ying-mao GAO)
- P-7-081 高原低氧对学习记忆的影响及 NMDA 受体在低氧中的作用 (黄辉, 阮怀珍)
- P-7-082 Cloning and identification of differentially expressed genes involved in neuronal development and differentiation (Zhi LI, Qiang LI, Leif HERTZ, Albert Cheung Hoi.YU)
- P-7-083 NOS/NO change in the brain of mice during hypoxic preconditioning (HY LIU, JH XIE, GW LU)
- P-9-001 The primary structure of anti-opioid peptide-99A and it's derivation from porcine brain identical with diazepam binding inhibitor (DBI) from porcine intestine (YuZhen Chen, SunPing Liang, XiaoCun Li, Zhenquan Guo, Hong Qu, HePing Cheng, CaiHong Wu)
- P-9-002 The role of AOP-99A/DBI on morphine tolerance and dependence (Y.Zh.CHEN, X.Ch LI, Zh. Q. GOU, C.H. WU)
- P-9-003 计算神经科学方法和思想在本科教学中的运用 (张铭, 李安邦)
- P-9-004 A simple and effective method for obtaining stable *in vivo* whole cell recordings from visual cortex (Ye WANG, Zhao ZHU, Xin-Zhen XU, Chao-Yi LI)

31/7/2001  
Tuesday  
Day 3

- P-9-005 Changes of gastric motility in rats evoked by microinjection of motilin into LHA (Ai-jin ZHANG, Zheng-yao JIANG)
- P-9-006 Clinical application of neuroendoscopic techniques (Ya-zhuo ZHANG, Chung-cheng WANG, Pi-nan LIU, Xian-hong GAO)
- P-9-007 An investigation on the changes of NOS-positive neurons in cerebral cortex of epileptic rats induced by repeatedly delivering tetanus into the dorsal hippocampus (Jian ZHANG, Shixiang YANG)
- P-9-008 恒河猴基底前脑 AchE、ChAT、NOS 阳性神经元的分布 (王树兴, 姚志彬, 程树军, 黄韧)
- P-9-009 神经生物实验微机测量和刺激系统的研制 (还连进, 程介士)
- P-9-010 慢性电针刺对大鼠初级感觉神经元几种递质表型表达的影响 (林传友, 邓云平, 茹立强)
- P-9-011 神经元簇的层次性联合编码模型 (唐孝威, 吴义根, 单保慈, 曾海宁)
- P-9-012 Extension-generated sensation and extension-propagated myo-action along the meridian (Bing ZHU, Pei-jing RONG, Hui BEN, Wei-dong XU, Xinyan GAO)
- P-9-013 Molecular cloning and characterization of five novel human genes from human brain cDNA library (Haoran WANG, Xiangrong GAO, Yan-hua HUANG, Tan LI, You WAN, Xiaomin WANG, Jisheng HAN)

**31/7/2001**  
**Tuesday**  
**Day 3**

- P-9-014 Pharmacokinetics of intratumoral administration of cisplatin from a biodegradable polymer for the treatment of C6 glioma in the rat (Ling GUAN, Wei ZHANG, Ji ZHANG)
- P-9-015 Subthreshold membrane potential oscillations of type-A neurons in injured DRG (Jun-ling XING, San-jue HU, Kai-ping LONG, Hui XU, Sheng HAN)
- P-9-016 Study on the mechanism of relation between cardiac referred pain and heart meridian (Peijing RONG, Bing ZHU)
- P-9-017 The effects of  $Zn^{2+}$  on long-term potentiation of C fiber-evoked potentials in the rat spinal dorsal horn (Jun-Yi MA, Zhi-Qi ZHAO)
- P-9-018 DIELDRIN 对大鼠腹侧中脑酪氨酸羟化酶 mRNA 和蛋白表达的影响 (彭湘闽, 任惠民, 蒋雨平)
- O-9-002 Soman-hydrolyzing activity of recombinant human prolidase (Qing-ding WANG, Man-ji SUN)

**18:00-19:30 DINNER**

*Staff*  
*Restaurant*  
*HKUST*

**20:30-22:30 SOCIETY COUNCIL MEETING**

6424

**1/8/2001**

**Wednesday**

**Day 4**

**8:30-9:30**

**NORAM (HK) PLENARY LECTURE**

*LTB*

Chair: Andrew W.H. WONG

Speaker: Eitan FRIEDMAN (City University of  
New York, Medical School, New York,  
USA)

Title: (K-002) Protein phosphatase 1 regulates  
brain D<sub>1A</sub> dopamine receptor  
phosphorylation and function: role in  
dopaminergic dysfunction after *in utero*  
cocaine exposure

**9:45**

**TOUR AND FREE TIME**

**2/8/2001**

**Thursday**

**Day 5**

**8:30-9:30**

**HKBTA PLENARY LECTURE**

*LTB*

Chair: 陈宜张

Speaker: 郭爱克 (中国科学院神经科学研究所, 上海; 中国科学院生物物理研究所, 北京)

Title: (K-007) 果蝇的学习、记忆与条件化抉择研究

**9:30-12:45**

**ORAL REPORT V**

**(10 minutes presentation and 5 minutes discussion)**

**SESSION 1 (A.M.)**

*LTC*

**(Category 2: Neurotransmitter, neuromodulator and receptor)**

Chair: 蒋雨平 and Alex F. CHEN

9:30-9:45 O-2-018 Analysis of gene expression profile in human gliomas with DNA microarray technology (Bingyi WU, Shumei SUN, Albert C.H. YU)

9:45-10:00 O-2-019 百草枯对新生 C57BL 小鼠黑质纹状体通路的影响 (蒋雨平, 丁正同, 任惠民)

10:00-10:15 O-2-020 Probing pore with n-terminal plugs of  $\beta_2$  subunit: a study of inactivation in mSlo large conductance  $Ca^{2+}$ -activated  $K^+$  channel (Jiu-Ping DING, Xiao-Ming XIA, Christopher J. LINGLE)

10:15-10:30 O-2-022 Expression of FGF receptor in the retinofugal pathway of mouse embryos (Ling LIN, Sun-on CHAN)

10:45-11:00 O-3-001 干扰素阿片样镇痛作用的结构基础 (王云霞, 陈宜张, 蒋春雷)

**11:00-11:15 COFFEE BREAK**

*Academic  
Concourse*

11:15-11:30 O-3-002 A study of the mechanism of electroacupuncture in normalizing dysfunction of the hypothalamic-pituitary-ovarian axis in ovariectomized rats (Li Na CHENG, Bo-Ying CHEN)

2/8/2001  
Thursday  
Day 5

- 11:30-11:45 O-3-004 人脑对不同频率穴位电刺激反应的功能性磁共振成像研究 (金真, 张蔚婷, 罗非, 张奎伶, 张磊, 曾亚伟, 韩济生)
- 11:45-12:00 O-3-003 Chronic morphine treatment inhibits oxytocin release from the supraoptic nucleus slices of rats (Zhen-dong YOU, Jian-hong LI, Zhe-yu CHEN, Chao-you SONG, Chang-lin LU)
- 12:00-12:15 O-3-005 Development and maintenance of contralateral heat hyperalgesia and central sensitization induced by subcutaneous intraplantar bee venom injection in rats (Hui-sheng CHEN, Ji-hong ZHENG, Kai-cheng LI, Zhen LI, Hui-li LI, Jun CHEN)
- 12:15-12:30 O-3-006 以运动“随机”线条图刺激揭示出猫视皮层神经元两种不同的方向调谐特性 (刁云程, 陈尧, 李兵, 李旺, 王连红)
- 12:30-12:45 O-3-007 神经损伤后的异位电活动是诱发 DRG 交感神经芽生的直接因素 (谢益宽, 董承海, 谢作磊)

**SESSION 2 (A.M.)**

*LTE*

**(Category 8: Nervous system diseases)**

**Chair: Sheng-di CHEN and 陆雪芬**

- 9:30-9:45 O-8-017 雌激素受体在海马的表达及与 ALZHEIMER 病的关系 (周江宁, 胡祥友, 秦松)
- 9:45-10:00 O-8-018 癫痫发作、反复发作及并发精神障碍的实验研究 (张万琴, 刘辉, 洪昭雄)
- 10:00-10:15 O-8-019 阿尔茨海默病与语义记忆损伤: 一个个案研究 (张亚旭, 周晓林, 尹岭, 杨炯炯)

2/8/2001  
Thursday  
Day 5

10:15-10:30 O-8-020 Induction of neuronal apoptosis and expression of IL-1 and S100 $\beta$  in the hippocampus of rat by amyloid- $\beta_{40}$  (Shengdi CHEN, Hengbing ZU, Jun SHAO)

10:30-10:45 O-8-021 Phytochemical and pharmacological study of chinese herb SSY on Alzheimer's disease (Lin LI, Jing-hua PIAO, Jin CHU, Lan ZHANG, Wen-lin AN)

10:45-11:00 O-8-022 Protective effects for adenoviral-mediated GDNF gene intracerebral transfer in a rat model of Parkinson's disease (Shengdi CHEN, Xianwen CHEN, Zhenguo LIU, Guoyuan YANG)

**11:00-11:15 COFFEE BREAK**

*Academic  
Concourse*

11:15-11:30 O-8-024 The research on intron 8 of the Wilson's disease gene (Chun-shui YANG, Xiuling LIANG, Zhenwen YAN, Ping-yi XU)

11:30-11:45 O-9-001 The cardiac rhythm based on the action potential of neural cells (Shenquan LIU)

11:45-12:00 O-9-004 HSV-I 型病毒跨突触标记膀胱低级中枢的研究 (殷树仪, 刘子建, 范玉华, 祝善乐, 李光千)

12:00-12:15 O-8-023 Radiation therapy induced expressions of p53, p21<sup>WAF1</sup> protein, but not Bax protein is dependent on endogenous cellular p53 status in human glioma cell lines (Zhi-Gang CHEN, Yi-Cheng LU, Xue-Hua DING, Cheng ZHU, Helen FILLMORE, William C. BROADDUS)

12:15-12:30 O-8-025 Tinnitus related brain areas: a positron emission tomography study (Hongtian WANG, Sichang JIANG, Weiyan YANG, Dongyi HAN, Jiahe TIAN, Dayi YIN, Xiaowei TANG, Baoci SHAN)



2/8/2001  
Thursday  
Day 5

*LTB*

**SESSION 3 (A.M.)**

**(Category 7: Development, senescence, regeneration and injury)**

**Chair: 范明 and Pak-lai TANG**

- 9:30-9:45 O-7-030 Fe<sup>++</sup>螯合剂对海马神经元耐缺氧能力的影响 (赵彤, 吴丽颖, 丁爱石, 王福庄, 范明)
- 9:45-10:00 O-7-031 Ca<sup>2+</sup> store-induced quantal secretion from disconnected synaptic terminals in superior cervical ganglion neurons (Lin-Lin HE, Xu ZHANG, Zhuan ZHOU)
- 10:00-10:15 O-7-032 小鼠胚胎干细胞体外分化为神经前体细胞的研究 (吴旋, 黎海蒂, 李树浓, 徐海伟)
- 10:15-10:30 O-7-033 Expression of stem cell factor and c-KIT in the early stages of human brain development (Ben LIU, Lan-ying LI, Zhi-ling PANG)
- 10:30-10:45 O-7-034 褪黑素抑制 MPTP 致 DA 能神经元的损伤与其降低羟自由基的生成有关 (李学君, 顾靖, 陆世铎, 孙凤艳)
- 10:45-11:00 O-7-037 GABA may function as an axonal guidance cue during early development (Yang XIANG, Sheng WANG, Shumin DUAN, Mu-ming POO, Chien-ping WU)
- 11:00-11:15 COFFEE BREAK**
- 11:15-11:30 O-7-038 Increase in cytochrome oxidase activity in regenerating nerve fibers in spinal cords of adult rats (Ying-ying LIU, Margaret TT WONG-RILEY, Hui-ling LIU, Yi JIA, Chun-ting WANG, Si-wei YOU, Gong JU)
- 11:30-11:45 O-7-040 14-3-3 binds to endogenous BAD and C-RAF-1 in ischemic astrocytes (X.Q. CHEN, J.G. CHEN, Y. ZHANG, Albert C.H. YU)

*Academic  
Concourse*

**2/8/2001  
Thursday  
Day 5**

- 11:45-12:00 O-7-041 Research on the repair of spinal cord injury by tissue engineering method (Xianguang LI, Xiandi ZHANG, Xiaodong CHEN, Dongxu PIAO, Jianjun LI)
- 12:00-12:15 O-7-035 正常和外周神经损伤后大鼠背根节基因表达谱的建立及差异基因的克隆 (肖华胜, 韩泽广, 张方雄, 黄秋花, 陆莹谨, 鲍岚, 陈竺, 张旭)
- 12:15-12:30 O-7-036 离体培养的大鼠脊髓神经元和胶质细胞表达蛋白质组分析 (贾宇峰, 王国华, 阙海萍, 刘少君)
- 12:30-12:45 O-7-039 Interactions between olfactory ensheathing cells and neural stem cells (Qi ZHANG, Jinhong MENG, Gong JU)

**Special topics II**

*LTG*

**Chair: Lin HE and Hannah Hong XUE**

- 9:30-10:00 O-1-003  $Ca^{2+}$  independent but voltage dependent secretion in dorsal root ganglion neurons (Chen ZHANG, Lie-Chen WANG, **Zhuan ZHOU**)
- 10:00-10:30 O-8-002 A new approach for the suppression of heroin craving (**Ji-Sheng HAN**, Bin WANG, Ben-Guo ZHANG, Fei LUO)
- 10:30-11:00 O-2-025 Modular structure of GABA<sub>A</sub> receptor and importance of the CYS-TRP residues (**Hong XUE**)

**11:00-11:30 COFFEE BREAK**

*Academic  
Concourse*

- 11:30-12:00 O-6-005 Functional studies on the marginal division of the neostriatum (**Si-yun SHU**, X.M. BAO, S.X. LI, D.B. NIU, H. WANG, Y.Z. ZHAN, Z.C. ZHENG)
- 12:00-12:30 O-8-026 The role of pharmacogenomics in future treatment of schizophrenia (**Lin HE**)

**12:45-14:00 LUNCH**

*Staff  
Restaurant,  
HKUST*

2/8/2001  
Thursday  
Day 5

**14:00-15:00 HКСN PLENARY LECTURE**

*LTB*

Chair: Robert L. JONES  
Speaker: Kwok-Fai SO (The University of Hong Kong, Hong Kong, China)  
Title: (K-005) Neuroprotection and axonal regeneration of retinal ganglion cells in adult mammals: effects of herbal extracts

**15:00-16:30 ORAL REPORT VI**

**(10 minutes presentation and 5 minutes discussion)**

**SESSION 1 (P.M.)**

*LTC*

**(Category 3: Sensory system)**

**Chair: 寿天德 and 段树民**

- 15:00-15:15 O-3-008 蜗管外记录小耳蜗鼠微音器电位的简易方法 (李安邦)
- 15:15-15:30 O-3-009 Experiment study on the analgesic effect of endomorphin-1 (Qi-Zhang YIN, Zheng-Hong LI, Li-Dong SHAN, Shi-Yu GUO, Tadashi HISAMITSU)
- 15:30-15:45 O-3-010 视皮层方位功能柱起源的机制: 脑内源信号光学成像的研究 (寿天德)
- 15:45-16:00 O-3-011 Fine scale functional organization of areas 3B and 1 revealed with intrinsic optical imaging in the squirrel monkey (L.M. CHEN, R.M. FRIEDMAN, B.M.RAMSDEN, R.H. LAMOTTE, A.W. ROE)
- 16:00-16:15 O-3-012 GABAergic inhibition can sharpen frequency tuning and shape rate-intensity functions of cortical neurons (Hung-Sun Philip JEN, Qi-Cai CHEN, Fei-Jian WU)
- 16:15-16:30 O-3-013 Glutamate transporter EAAC1 is expressed on müller cells of lower vertebrate retinas (Jing-Wei ZHAO, Xiong-Li YANG)

2/8/2001  
Thursday  
Day 5

*LTE*

**SESSION 2 (P.M.)**

**(Category 9: Others)**

**Chair: 陈建国 and 蒋春雷**

- 15:00-15:15 O-9-005 cAMP-mediated the restoration of the down-regulated NMDA receptor activity by BDNF (Ji-hu SUN, Xiao-qing YAN, ling LIU, Yi-zhang CHEN, Chun-an WANG)
- 15:15-15:30 O-9-006 cDNA cloning, chromosomal localization and expression pattern analysis of human homeobox gene Lhx4 (Yaobo LIU, Ming FAN, Yan ZHOU, Shun YU, Jiazheng WANG, Jiangang YUAN, Boqing QIANG)
- 15:30-15:45 O-9-007 An 8-residue segment of shIR channel reserved its TEA-binding ability in a bacteria toxin protein (Xiao-Qing QIU)
- 15:45-16:00 O-9-008 内皮素系统在缺氧诱导培养小鼠星形胶质细胞形态学变化中的作用 (An-ding XU, Kai M. SCHMIDT-OTT, Sebastian TUSCHICK, Lutz LIEFELDT, Susan LYONS, Helmut KETTENMANN, Martin PAUL)
- 16:00-16:15 O-9-009 脑功能新基因的筛选、鉴定及功能研究 (高翔, 孔令伟, 涂艳阳, 金志刚, 李葆明, 金玫蕾, 景乃禾)
- 16:15-16:30 O-9-010 免疫磁珠法分选胚胎大鼠脑神经干细胞的初步研究 (高国一, 户亚成, 江基尧, 朱诚)

**SESSION 3 (P.M.)**

**(Category 7: Development, scenescence, regeneration and iunjury)**

**Chair: 路长林 and Liang PENG**

*LTB*

**2/8/2001**  
**Thursday**  
**Day 5**

- 15:00-15:15 O-7-042 Relationship between remaining spinal fibers and functional recovery following spinal cord transection in adult rats (Siwei YOU, Bing-yao CHEN, Hui-ling LIU, Yao-yu LI, Xi-ying JIAO, Ying WANG, Gong JU)
- 15:15-15:30 O-7-044 Study of hippocampal neuronal damage induced by stress in the rat (Jin YAN, Xueqi WANG, Changlin LU)
- 15:30-15:45 O-7-047 The patterns of programmed neuronal death in the forebrain of the chick embryo (Ji-bin DAN, Hiroyuki YAGINUMA)
- 15:45-16:00 O-7-043 Spinal cord extraction from adult lizard promotes survival and neurite outgrowth of rat embryonic spinal neurons in serum-free medium (Congjian ZHAO, Shaojun LIU)
- 16:00-16:15 O-7-045 Preliminary research on mature neurons division (Qiuxia LIN, Guohua WANG, Shaojun LIU)
- 16:15-16:30 O-7-046 Up-regulated membrane proteins in transaction-injured rat spinal cord separated by two-dimensional gel electrophoresis and identified by MALDI/TOF mass spectrometry (Qinxue DING, Fanwen KONG, Shaoxiang XIONG, Yaojun GUO, Suqian JIN, and Shaojun LIU)

**16:30-16:50 COFFEE BREAK**

*Academic  
Concourse*

**16:30-17:30 POSTER SESSION III**  
**Put up poster before 9:00**  
**Author presentation time between 16:30-17:30**  
**Remove poster before 9:30 of the next day**

*Academic  
Concourse*

2/8/2001  
Thursday  
Day 5

- P-1-001 神经递质释放与家蝇抗药性关系研究  
(李梅, 冯国蕾, 赵章武, 谢佳燕, 何风琴)
- P-1-002 -蝮蛇毒素对大鼠海马神经元大电导  
钙激活钾信道的抑制 (吴颖, 王中峰, 施  
玉梁)
- P-1-003 Activated melatonin receptors increase a  
delayed rectifier  $K^+$  current in rat  
cerebellar granule cells (Chun-liu HUAN,  
Mi-ou ZHU, Ming-ming WU, Xian-hua  
CHEN, Jia-Ting SHUN, Yan-ai MEI)
- P-1-004 Co-existence of PKC and calcium-  
binding proteins in neurons of the rat  
medullary dorsal horn (Tong-shang NI,  
Sheng-xi WU, Yun-qing LI)
- P-1-005 Corticosterone enhances exocytosis from  
dorsal root ganglion neurons through  
increasing the size of the readily  
releasable pool (Li-ming HE, Chun-  
guang ZHANG, An-lian QU, Zhuan  
ZHOU, Tao XU)
- P-1-006 Effects of acupuncture therapy on DRG  
neuron calcium current in diabetic rats  
(Zhong-wu LIU, Guo-ji WU, De-quan  
TIAN, Li-xia ZHU)
- P-1-007 在成年大鼠海马 CA1 区锥体细胞上记  
录到一种新型的 ATP 敏感钾信道 (周  
英杰, 王颖, 佟振清, 高天明)
- P-1-008 多巴胺及其  $D_2$  受体激动剂对前额叶皮  
层内侧区锥体神经元兴奋性突触后电  
流的影响 (王志, 郑平)
- P-1-009 果蝇幼虫及成虫中枢神经元全细胞钾  
电流的比较研究 (伍龙军, 徐天乐)
- P-1-010 全脑缺血再灌流后大鼠海马 CA1 区锥  
体细胞  $K_{ATP}$  信道活动增强 (周英杰, 佟  
振清, 高天明)

2/8/2001  
Thursday  
Day 5

- P-1-011 糖皮质激素对新生 SD 幼鼠海马神经元内钙的快速调节作用 (娄淑杰, 李怡, 王雪琦, 陈宜张, 路长林)
- P-1-012 钾信道阻断剂对缺氧/复氧诱导的培养海马神经元死亡的保护作用 (陈明, 孙红宇, 高天明)
- P-1-013 Ischemia induces persistent hyperactivity of large conductance  $Ca^{2+}$ -activated potassium channels via oxidation modulation in rat hippocampal CA1 pyramidal neurons (Liang-Wei GONG, Hao HUANG, Zhenqing TONG, Tian-Ming GAO)
- P-1-014 Postsynaptic mechanism of short-term plasticity in the outer retina (Jian-feng HU, Pei-ji LIANG)
- P-1-015 Properties of single  $K_{ATP}$  channels in hippocampal CA1 pyramidal neurons from adult rat (Ying-Jie ZHOU, Ping HU, Zhen-Qing TONG, Tian-Ming GAO)
- P-1-016 Rapid regulation of neuron secretion by corticosterone (Chun-guang ZHANG, Li-ming HE, Tao XU, Yi-zhang CHEN)
- P-1-017 Regulation of  $BK_{Ca}$  channel by a functionally associated protein kinase A in CA1 pyramidal neurons of adult rat hippocampus (Ke-Xiong ZHOU, Liang-Wei GONG, Hao HUANG, Tian-Ming GAO)
- P-1-018 Single channel properties of a  $BK_{Ca}$  channel in the CA1 pyramidal neurons of adult rat hippocampus (Xiao-Ming LI, Liang-Wei GONG, Hao HUANG, Tian-Ming GAO)

**2/8/2001**  
**Thursday**  
**Day 5**

- P-1-019 The effect of puerarin on calcium activated potassium channels of cerebral artery in rabbits (Qiang CHAI, Zhi-xiang LIU, Lei-yi WANG, Ai-ping ZHAO, Xiang-shu CHAI)
- P-1-020 Study of calcium homeostasis in a single SH-SY5Y cell (Liangyi CHEN, Shoubin ZOU, Li-ming HE, Tao XU, Hua-Guang KANG)
- P-1-021 The expression of G-protein-gated inwardly rectifying K<sup>+</sup> channels GIRK1 AND GIRK2 mRNAs in the supraoptic nucleus of the rat and possible role involved (Jianhong LI, Zhendong YOU, Chaoyou SONG, Cheng HE)
- P-1-022 Time-dependent reversal of LTP of C-fiber evoked field potentials in spinal dorsal horn (Hongmei ZHANG, Yingjie QI, Xuying XIANG, Xianguo LIU)
- P-1-023 Toosendanin-induced inhibition of small-conductance Ca<sup>2+</sup>-activated K<sup>+</sup> channels in hippocampal neurons (Zhong-Feng WANG, Yu-Liang SHI)
- P-1-024 Zinc and copper potentiation of ATP-activated currents in xenopus oocytes (Biwen PENG, Jingbo WEI, Zhiwang LI)
- P-5-001 Characteristics of the Ag-NORs in peripheral blood lymphocytes in patients with intracranial tumors (Yong CAO, Feng-shuang SUO, Ji-zong ZHAO)
- P-5-002 Protection of cardiac function by melatonin in rat (Pak-lai TANG, Yin-chun YAU, Mei-feng XU)
- P-5-003 Involvement of 11 $\beta$ -hydroxysteroid dehydrogenase type 1 in the neurotoxic effects of glucocorticoids on the hippocampal neurons in the rat (Shunlun WAN, Gang SUN)



2/8/2001  
Thursday  
Day 5

- P-5-004 大鼠幽门括约肌神经支配的研究 (茹立强, 李琴, 胡道松)
- P-5-005 Discharge patterns and spatial distribution of respiratory neurons in the brainstem slice from neonatal rat (Zhong-Hai WU, Bing-Xing PAN, Ning-Qian WANG, Yue SHI, Zhi-Qiang LI)
- P-5-006 Effect of melatonin on the circadian electrical activity of rat suprachiasmatic nucleus neurons (Guang-Di YU, Jin-Zhi WANG, Zhang YIN)
- P-5-007 肾上腺素注射引起的血脑屏障瞬时开放可致血浆免疫球蛋白进入脑内 (邝芳, 王百忍, 鞠射)
- P-5-008 Expression of FOS protein in the brain of acute allergic asthmatic rats (Wei-wen FAN, Bin SUN, Bing-zhong SUN)
- P-5-009 Sensitivity of neurons with non-periodic activity to sympathetic stimulation in rat injured dorsal root ganglion (Hong-jun YANG, San-jue HU, Pu-lin GONG, Yubin DUAN, Jian-hong DUAN, Jian-xue XU)
- P-5-010 The role of protein kinase C and its influence on GHRH in the regulation of hormone secretion by somatotrophinomas (Kui LIU, Yue HE, Hong-yun WANG, Zhong-cheng WANG, Ya-zhuo ZHANG)
- P-6-001 Studies on the molecular mechanisms of lead's neurotoxicity to learning and memory (Guo-jun LI, De-sheng WU, Aimin GUO, Yi-fu DENG, Ping WU, Jinhua CHU, Jie ZHANG)
- P-6-002 Studies of expression and degradation of NCAM in hippocampal LTP (Zhian HU, Haidi LI, Yinling TANG, Jun LUO)

2/8/2001  
Thursday  
Day 5

- P-6-003 Macroscopic-scale brain theory study integration potential (Hong-guang LIU, Lin ZHOU, Jing-han WEI, Yue-jia LUO, Da-zong JING)
- P-6-004 Spatial memory changes with lymphostatic encephalopathy in rats (Yue LIU, Huai-jing WANG, Huai-xing WANG, Zhen-zhong LI, Xiao-xi WANG, Shao-ping HOU, Yue WANG, Zi-ying XING)
- P-6-005 默读高、低频词时的脑功能成像 (张武田, 唐一源, 马林)
- P-6-006 IL-1 慢性刺激大鼠 nbM 对大鼠学习记忆行为的影响及机制研究 (祝世功, 刘恒颖, 徐琪)
- P-6-007 缺锌对生长大鼠记忆及有关神经生化指标的影响 (刘燕强, 顾景范)
- P-6-008 Blockade of prefrontal  $\alpha$ -receptors induces hyperactivity in rats and monkeys (Chao-lin MA, Zheng-mei MAO, Bao-ming LI)
- P-6-009 Blockade of  $\alpha$ -receptors in CA1 or CA3 impairs spatial and contextual memory in rats (Jin-zhao JI, Bao-ming LI)
- P-6-010 半乳糖所致大鼠学习记忆障碍以及电针对其的干预作用 (张志雄, 原淑娟, 吴定宗)
- P-6-011 Evidence for the involvement of hippocampal  $\alpha$  in learning and memory (Xin-Ming WANG, Xue-Han ZHANG, Nai-He JING, Mei-Lei JIN, Bao-Ming LI)
- P-6-012 促智新药 KMBZ-009 对培养新生小鼠神经细胞离子信道的的影响 (陈必义, 李朝翠, 蔡景霞)

2/8/2001  
Thursday  
Day 5

- P-6-013 新生期大鼠缺氧血对远期学习记忆和海马时程增强的影响 (常燕群, 谢集建, 刘中武, 张秋芳, 陈宝芳)
- P-6-014 颜色回忆激活颜色知觉区的 fMRI 研究 (赵晶辉, 王岩, 贾富仓, 马林, 李德军, 罗劲, 翁旭初)
- P-6-015 Expression of prefrontal cortical  $\alpha$ -2A receptor in developing rats (Zheng-mei MAO, Ke TANG, Nai-he JING, Bao-ming LI)
- P-6-016 视听汉字再认的 ERP 重复效应 (罗跃嘉, 翁旭初, 魏景汉)
- P-6-017 面孔识别的事件相关电位研究 (彭小虎, 罗跃嘉)
- P-6-018 Involvement of hippocampal SNAP-25 in spatial and contextual learning and memory (Qiu-ling HOU, Xin-ming WANG, Nai-he JING, Mei-lei JIR, Bao-ming LI)
- P-6-019 Neural correlates of perceptual learning as revealed by fMRI (Yan WANG, Fucang JIA, Jinghui ZHAO, Lin MA, Dejun LI, Xuchu WENG, Sheng HE)
- P-6-020 The  $\alpha$ 1-agonist guanfacine improves visuomotor association learning in monkeys (Min WANG, Kai-jing XU, Bao-ming LI)
- P-8-001 Transfer of foreign gene into skeletal muscle by *in vivo* electroporation in neonatal mice (Leung-Wah YICK, Wutain WU, Pik-To CHEUNG)
- P-8-002 The change of gene expression under the interaction between glutamate and glucocorticoid in epileptic state rat by mRNA differential display (Chunling MA, Changgeng ZHU, Shuhong LIU, Ming FAN)

2/8/2001  
Thursday  
Day 5

- P-8-003 Study on the preventive and therapeutic effects of nucleotide complex on mice with Alzheimer's disease (Xian-zhong BAI, Ping-ping ZUO, Shi-fu ZHANG, Jian-ping ZHOU and Jing-bo ZHANG)
- P-8-004 Sources of GRIP force overflow in Parkinson's disease (Bao-rong ZHANG, Roland WENZELBURGER, Delia LORENZ, Sabine Jan RAETHJEN, Henning STOLZE, Gunther DEUSCHL, Paul KRACK)
- P-8-005 Frequency specific response of human brain to peripheral transcutaneous electric nerve stimulation: a functional MRI study (Zhen JIN, Wei-Ting ZHANG, Fe LUOI, Kui-Ling ZHANG, Lei ZHANG, Ya-Wei ZENG, Ji-Sheng HAN)
- P-8-006 口语交流障碍领域中计算机应用现状 (陈卓铭, 李巧薇, 罗东媚, 黄舜韶)
- P-8-007 1-甲基-4-苯基吡啶离子诱导 MES 23.5 细胞线粒体功能异常的实验研究 (傅毅, 扬秀丽, 陈生弟, 刘振国, 乐卫东)
- P-8-008 -淀粉样蛋白和载脂蛋白 E4 升高神经元胞内游离钙 (田映红, 周丽华, 姚志彬, 赵桂玲, 孙红宇)
- P-8-009 P 型谷胱甘肽转移酶基因多态性与帕金森病遗传易患性的关系 (邬剑军, 任惠民, 蒋雨平)
- P-8-010 RETT 综合症 MECP2 基因突变分析 (潘虹, 包新华, 孟洪弟, 吴希如, 王艳萍, 沉岩)
- P-8-011 100 Hz electroacupuncture inhibits cocaine-induced place preference in rats (Yanhua REN, Bin WANG, Fei LUO, Ji-Wang ZHENG, Ji-Sheng HAN)

2/8/2001  
Thursday  
Day 5

- P-8-012 A candidate gene study on human chromosome 2 for genes affecting the risk for alcohol dependence (W. Shoutian WU, A. GOATE, T. HINRICHS, J. RICE, H. BEGLEITER, T. REICH)
- P-8-013 人 TH/GDNF 双基因表达工程细胞系的构建及其用于帕金森病模型基因治疗的研究 (张文华, 杨扬, 高红, 张蔚, 王晓民, 韩济生)
- P-8-014 人工神经网络方法在老年性痴呆 PET/FDG 数据处理中的应用 (曾海宁, 马云川, 李德鹏, 单保慈, 吴义根, 唐孝威)
- P-8-015 The response of peripheral lymphocyte to amyloid fragment (A $\beta$ 1-40) in the patients with Alzheimer's disease (Jie HAN, Cai-yun QIAN, Qi WU, and Hongchuan LIN)
- P-8-016 Clinical and prognosis study of massive cerebellar infarction (Yong-qian XING, Bin ZHAO, Kong-yang XING)
- P-8-017 An experimental study on gene therapy in monkey models of Parkinson's disease with intracerebral grafts of genetically modified fibroblasts expressing tyrosine hydroxylase (Hui YANG, Shaoping HOU, Jinlu ZHANG, Yujun LIU, Qiang LU, Chunli ZHAO, Qunyuan XU)
- P-8-018 Detection of Wilson's disease gene expression by RT-PCR in transfected Me32aT22 cell line (Zhen-wen YAN, Xiu-ling LIANG, Chun-shui YANG, Guo-qing HOU, Ping-yi XU, Rong CHEN, Zhi-heng HUANG, Fan HUANG)

2/8/2001  
Thursday  
Day 5

- P-8-019 Asymmetric MRI intensity change in rat brain during chronic epilepsy (Yuefeng TANG, Xianrong ZHANG, Dan HAN, Shijin YIN, Chaohui YE, Maili LIU)
- P-8-020 脑局部葡萄糖代谢率 PET/FDG 定量计算的误差分析 (吴义根, 单保慈, 曾海宁, 唐孝威)
- P-8-021 脑外伤病人 CT、MRI 和 PET 对比研究 (曾海宁, 王瑞民, 尹岭, 田嘉禾)
- P-8-022 猫脑 PET 图像的 SPM 处理 (单保慈, 尹大一, 张运周, 田嘉禾, 尹岭, 唐孝威)
- P-8-023 连接蛋白 43 在慢性癫痫大鼠海马结构中的表达改变 (邓平, 赵绮华, 郑德枢)
- P-8-024 带状疱疹三叉神经痛 16 例临床分析 (刘筱莉)
- P-8-025 线粒体病动物模型和细胞模型的建立及发病机制研究 (李晓东, 高枫, 徐建兴, 陈清棠)
- P-8-026 柴胡三种萃取物的抗惊厥作用及 GC-MS 分析 (刘燕, 廖卫平, 高玫梅)
- P-8-027 帕金森病大鼠模型多巴胺转运蛋白  $^{125}\text{I}$ - $\beta$ -CIT 放射自显影研究 (刘振国, 陈生弟, 孙文善, 沈鸣华, 李培勇)
- P-8-028 帕金森氏病大鼠纹状体蛋白质组双向凝胶电泳分析 (沉琰, 唐仲书, 周嘉伟)
- P-8-029 荧光分光光度法观察银杏叶提取物抑制 1-40 和 1-42 的聚集作用 (李光武, 肖学珊, 汪华侨, 姚志彬)
- P-8-030 雌激素对去卵巢大鼠脑功能的保护作用研究 (左萍萍, 杨楠, 刘凤华, 葛秦生)

2/8/2001  
Thursday  
Day 5

- P-8-031 Expression of Wilson's disease gene within the Me32aT22 cell line and study on copper transport (Xiu-ling LIANG, Zhen-wen YAN, Chun-shui YANG, Ping-yi XU, Rong CHEN, Guo-qing HOU, Fan HUANG)
- P-8-032 蝎毒抗癫痫反复发作的 GFAP 基因调控机制 (姜春玲, 张万琴)
- P-8-033 辣椒素急性脱敏治疗三叉神经痛的实验研究 (丁继固, 关春保, 林传友, 殷光甫, 茹立强)
- P-8-034 采用 NADPH-d 组化方法对华勒氏变性时巨噬细胞来源的探讨 (范惠勇, 郑德枢)
- P-8-035 Long-term behavioral recovery in Parkinsonian rats with rAAV-mediated gene transfer of TH and GDNF (Wangming ZHANG, Yongsheng XU, Feng XU, Dongbin NIU, Bing XUE, Xiaomin WANG, Jisheng HAN)
- P-8-036 Influence of acupuncture on memory decline of diabetic mice (Zheng-qiu CHEN, Xiang-hong JING, Hong SHI, Xin WANG, Zhi-gao JI, Li-xia ZHU)
- P-8-037 Role of melatonin in penicillin-induced seizures and electroacupuncture anti-seizure (Dongman CHAO, Gang CHEN, Jieshi CHENG)
- P-8-038 SPECT and MRI studies of Alzheimer's disease (Kaida JIANG)
- P-8-039 Study on incidence of depression symptoms and its related factors after stroke (Gang WANG, Li-hua CUI, Li-jia CHEN, Hao ZHANG, Ming-ming YANG, Qing LAN)

**2/8/2001**  
**Thursday**  
**Day 5**

- P-8-040 The effects of GM1 on cerebral ischemia after cerebral vascular SPASM (Chuancheng REN, Yun-Fu WANG, Tian-Xiong YE)
- P-8-041 The expression of thrombospondine1 (TSP1) and thrombospondine2 (TSP2) mRNA and their difference correlated to pathology in gliomas (Xiaodi HAN, Jizong ZHAO)
- P-8-042 The gene mutation detection and clinical analysis on spinocerebellar ataxia type 7 (Zhiheng HUANG, Xiuling LIANG, Ping-yi XU)
- P-8-043 Afferent projections from motoneurons innervation extraocular muscles to the cerebellum demonstrated by the retrograde double-labeling technique (Rattiborn SUNARTPIN, Naiphinch KOTCHABHAKDI, John A. RAWSON)

**18:00**

**BANQUET**

(Bus will leave at 6:00pm from Piazza to North Point)

敦煌酒家, 香港北角英皇道 436 号 (**Treasure Restaurant**, 436 King's Road, North Point, Hong Kong) 电/Tel: 2563 0222



**3/8/2001**

**Friday**

**Day6**

**8:30-9:30**

**BIO-RAD PLENARY LECTURE**

*LTB*

Chair: Man-Ji SUN

Speaker: Larry I. BENOWITZ (Laboratories for Neuroscience Research in Neurosurgery Children's Hospital and Harvard Medical School, Boston MA, USA)

Title: (K-006) Axon regeneration in the mature CNS: regulation by inosine and other molecules

**9:30-11:00**

**ORAL REPORT VII**

**(10 minutes presentation and 5 minutes discussion)**

**Session 1 (P.M.)**

*LTC*

**(Category 3: Sensory system)**

**Chair: 舒斯云 and 万有**

9:30-9:45 O-3-014 Morphological features of neurons in golgi-stain-like images in the adult rat brain revealed by GFP-sindibis virus infection *in vivo* (Yun-qing LI)

9:45-10:00 O-3-015 Neural mechanism of the spatial scale of visual attention revealed by early ERP effects (Yue-Jia LUO, Raja PARASURAMAN)

10:00-10:15 O-3-016 Interaction between paired inferior collicular neurons (Feijian WU, Hung-Sun Philip JEN, Qi-Cai CHEN)

10:15-10:30 O-3-017 Postnatal development, maturity and aging of persistent spontaneous pain and hyperalgesia induced by subcutaneous intraplantar bee venom injection in rats (Jun CHEN, Meng-meng LI, Wei GE, Hui-sheng CHEN, Kai-cheng LI, Ji-hong ZHENG, Zheng LI, Ceng LUO, Hui-li LI)

10:30-10:45 O-3-018 Signals from rods and cones to the second-order neurons are differentially modulated by low calcium in carp retina (Hong-pin XU, Xiong-li YANG)

**3/8/2001  
Friday  
Day 6**

10:45-11:00 O-3-019 Temporally patterned pulse trains with high pulse repetition rates improve intensity and frequency sensitivity of bat inferior collicular neurons (Hung-Sun Philip JEN, Xiao-Ming ZHOU, Chung-Hsin WU)

**SESSION 2 (P.M.)**

*LTE*

**(Category 9: Others)**

**Chair: Xiao-Qing QIU and Kwok-Fai SO**

- 9:30-9:45 O-9-011 蛋白质 质量指纹图谱鉴定的方法与策略 (丁勤学, 熊少祥, 赵从建, 贾宇峰, 刘少君)
- 9:45-10:00 O-9-013 神经组织总蛋白质双向凝胶电泳重复性分析 (贾宇峰, 丁勤学, 赵从建, 郭尧君, 刘少君)
- 10:00-10:15 O-9-014 混沌系统处理信息的分析 (黄显高, 徐建学, 黎海蒂)
- 10:15-10:30 O-9-015 “Non-periodic sensitivity” of neurons (San-jue HU, Hong-jun YANG, Guo-peng LUI, Gong JU)
- 10:30-10:45 O-9-016 The neuronal-astrocytic complex in the central nervous system (Zhi-ren RAO, Liang-wei CHEN, Zhi-jun YANG, Li DUAN, Xiao-bin WANG, Hui ZHANG, Jian-yong QIU, Dong-lin CHU, Guo-hong TIAN, Ying WANG, Ju GONG)
- 10:45-11:00 O-9-012 蛋白质双向凝胶电泳图像分析 (贾宇峰, 林秋霞, 郭尧君, 刘少君)

**SESSION 3 (P.M.)**

*LTB*

**(Category 7: Development, senescence, regeneration and injury)**

**Chair: Zhigang XUE and P.T. CHEUNG**

**3/8/2001**  
**Friday**  
**Day 6**

- 9:30-9:45 O-7-048 Study of neuronal damage and response mechanisms to hypoxia/ischemia in cultures of cerebral cortical and hippocampal neurons (Feng LI, Yao XIE, Zhi-bin YAO, Yi-ci CHEN)
- 9:45-10:00 O-7-049 Sodium ferulate protects against ischemia-reperfusion induced oxidative DNA damage in rat brain (Jun-jian ZHANG, Yu-ming LIU, Xiao-qing ZHANG)
- 10:00-10:15 O-7-050 IND-2001 protects cerebellar granule and purkinje neurons against bilirubin-induced neurotoxicity (Sui-zhen LIN, Zhi-zhong MA, Xian-ming CHEN, Feng GAO, Yan-sheng DU)
- 10:15-10:30 O-7-051 Expression pattern of qBRN-2 implies its roles in neurogenesis and myogenesis (Wei LIU, Rongqiao HE, Zhigang XUE)
- 10:30-10:45 O-7-052 Cyclosporin A and caspase inhibitor protect glial cells against bilirubin-induced apoptosis (X.H. LIANG, C.Y. YEUNG, P.T. CHEUNG)
- 10:45-11:00 O-7-053 Cholera toxin promotes the regeneration of the retinal ganglion cells after distal axotomy of the optic nerve in adult hamster (Ningfang MA, Haibiao LI)

**SESSION 4 (A.M.)**

*LTG*

**(Category 3: Sensory system)**

**(Category 7: Development, senescence, regeneration and injury)**

**(Category 9: Others)**

**Chair: 谢俊霞 and 黎海蒂**

- 9:30-9:45 O-3-020 Zn<sup>2+</sup> modulates color-opponent bipolar cells in the carp retina (Dong-Gen LUO, Xiong-Li YANG)

**3/8/2001**  
**Friday**  
**Day 6**

- 9:45-10:00 O-7-054 Expression alterations of cystatin C in the hippocampus following entorhinal cortex lesion: possible correlation with collateral sprouting (Guo-Xin YING, Cheng HUANG, Zhi-Hua JIANG, Xin LIU, Wen-Yuan WANG, Nai-He JING, Chang-Fu ZHOU)
- 10:00-10:15 O-7-055 Glial cell line-derived neurotrophic factor protects astrocytes from ischemia injury (Yun ZHANG, Zhongjian JIANG, Xiaoqian CHEN, Qunyuan XU, Albert C.H.YU)
- 10:15-10:30 O-9-017 脑神经信息基础理论的宏观研究 (曹志彤, 何国光, 陈宏平, 金敏)
- 10:30-10:45 O-9-018 中枢神经蛋白质组分析中双向电泳技术的建立 (赵从建, 贾宇峰, 丁勤学, 阙晓君, 刘少君)
- 10:45-11:00 O-9-019 Phosphorylation of tau by glycogen synthase kinase 3 in intact mammalian cells influences the stability of microtubules (Huachun SANG, Zhonghua LU, Yulong LI, Jianguo CHEN)

**11:00-11:15 COFFEE BREAK**

*Academic  
Concourse*

**11:15-12:15 HKUST 10<sup>TH</sup> ANNIVERSARY PLENARY LTB  
LECTURE**

Chair: Nancy Y. IP

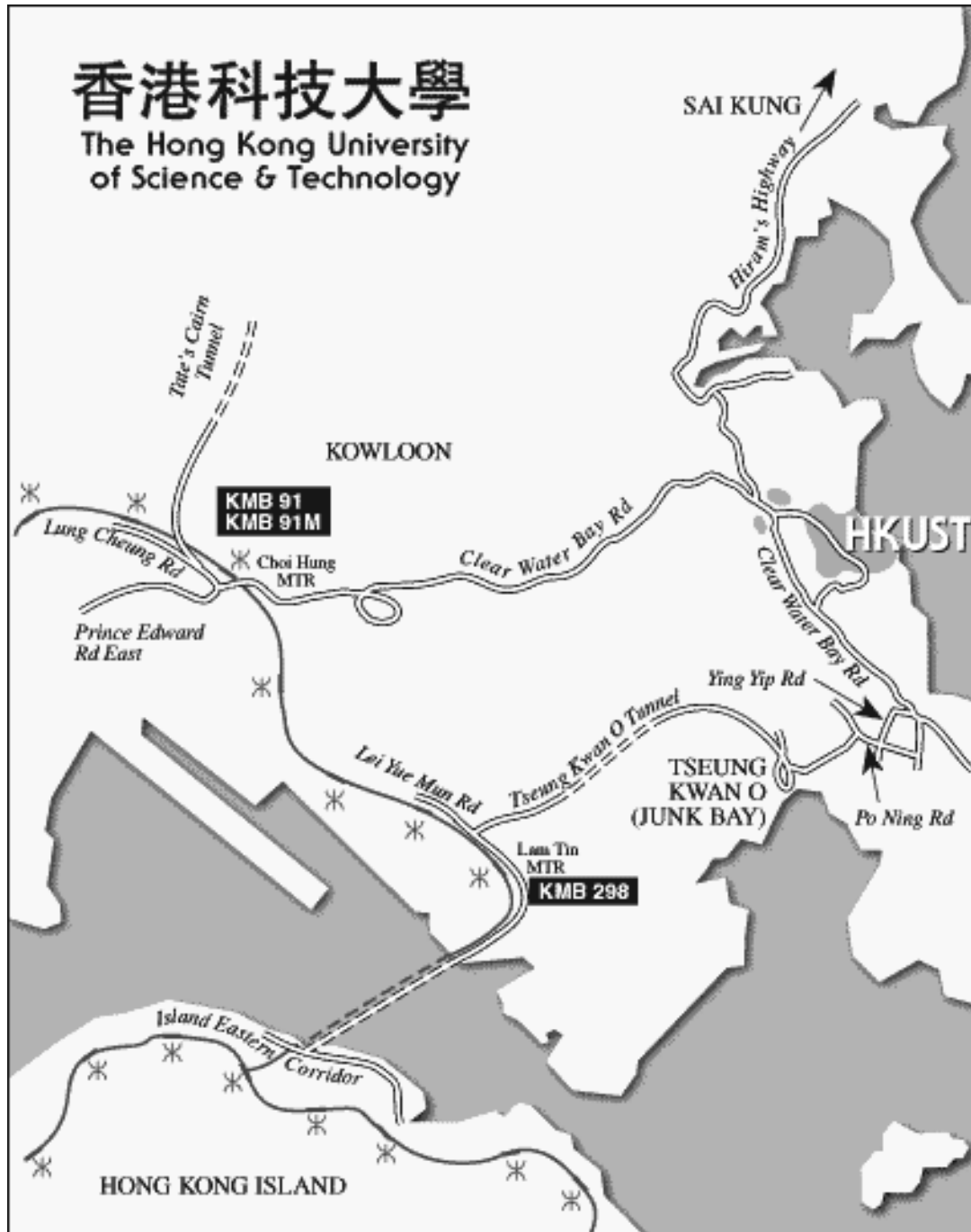
Speaker: Jean C. SHIH (University of Southern California, Los Angeles, USA)

Title: (K-009) Life without monoamine oxidase: monoamine functions and behavior

**12:15 CLOSING REMARK**

# TRANSPORTATION and MAPS

## SITE MAP



# MINIBUS

## **Green Minibus 11S (Hang Hau via HKUST - Ping Shek) Overnight Service**

**ROUTE:**

To operate an all-night service from Hang Hau to Ping Shek (Circular) until 8 August 2001.

**TIME:**

Between 12:00 midnight and 2:30 a.m. at 15 minutes frequency, and between 2:30 a.m. and 5:00 a.m. at 50 minutes frequency.

**FARE:**

\$7.00 per single journey

## **Green Minibus 11 (Hang Hau via HKUST -- Ping Shek) (Circular)**

**ROUTE:**

Hang Hau to Ping Shek (Circular):

**TIME:**

5:15-23:50

**FARE:**

\$5.50 per single journey

## **Green Minibus 12 (Sai Kung-Campus-Po Lam)**

**ROUTE:**

Sai Kung to Po Lam

Po Lam to Sai Kung

**TIME:**

5:50-23:00 (from Sai Kung)

5:50-22:10 (from Po Lam)

**FARE:**

\$8.50 per single journey

(Tseng Lan Shue <=> Sai Kung - \$5.50)

(Tseng Lan Shue <=> Po Lam - \$5.50)

## **Green Minibus 104 (HKUST-Kwun Tong)**

**ROUTE:**

Hong Kong University of Science and Technology to Kwun Tong (circular):

**TIME:**

6:25-21:00

**FARE:**

HKUST to Kwun Tong Road / Ngau Tau Kok MTR Station or vice versa <=> \$6.00

HKUST to Shun Lee Estate or vice versa <=> \$5.00

Shun Lee Estate to Kwun Tong Road / Ngau Tau Kok MTR Station or vice versa <=> \$4.00

# BUS

## **KMB 91M (Hang Hau via HKUST to Diamond Hill MTR Station)**

**ROUTE:**

Hang Hau (On Ning Garden) to Diamond Hill MTR Station  
Diamond Hill MTR Station to Hang Hau (On Ning Garden)

**TIME:**

5:45-12:00mid-night (from Diamond Hill MTR Station)

5:45-23:15 (from Hang Hau)

**FARE:**

\$4.9

## **KMB 91 (Clear Water Bay via HKUST to Diamond Hill MTR Station)**

**ROUTE:**

Diamond Hill MTR station to Clear Water Bay  
Clear Water Bay Road to Diamond Hill MTR station

**TIME:**

6:00-22:25 (from Diamond Hill MTR Station)

6:00-23:15 (from Clear Water Bay)

**FARE:**

Non air-conditioned bus service: \$4.7

Air-conditioned bus service: \$6.5

## **KMB 298 (Lam Tin MTR Station – HKUST)**

**ROUTE:**

Lam Tin MTR Station to HKUST  
HKUST to Lam Tin MTR

**TIME:**

5:50-12:00midnight

**FARE:**

\$5.2





# MEETING SITE

