

Curriculum Vitae

Hong XUE

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Education:

- 1989-1992 PhD, University of Toronto, Toronto, Ontario, Canada
- 1986-1988 PhD training, Second Military Medical University, Shanghai, China
- 1983-1986 M.Sc., Second Military Medical University, Shanghai, China
- 1978-1983 M.D., Second Military Medical University, Shanghai, China

Experience:

- 2017- Editorial Member, American Journal of Psychiatry and Mental Health
- 2016- Associate Editor, Translational Genetics and Genomics
- 2015- Member, Scientific Planning Committee, International Cancer Genome Consortium II
- 2013.3- Member, Grant Review Panel, Division of Medical Science, National Natural Science Foundation of China
- 2013.2- Member, Grant Review Board, Health and Medical Research Fund, Food and Health Bureau, the Government of the Hong Kong Special Administrative Region
- 2008- Professor, Division of Life Science, School of Science
Hong Kong University of Science and Technology, Hong Kong
- 2008- Project Leader, International Cancer Genome Consortium
- 2007-2009 Director, Board of Directors
International Society for Computational Biology
- 2007- Director, Applied Genomics Center
Hong Kong University of Science and Technology, Hong Kong
- 2003-2005 Member, International HapMap Project
- 1994-2007 Assistant/Associate Professor, Department of Biochemistry
Hong Kong University of Science and Technology
- 1992-1994 Post-doc Fellow, Department of Genetics, University of Glasgow, UK
- 1991-1992 Visiting Scientist, Centre National de la Recherche Scientifique, Paris

Awards:

- 2012 Wang Kwan Cheng Foundation Visiting Scholarship
- 2012 Ding Ying Chair Professorship Award
- 2010 Higher Education Outstanding Scientific Research Output Award
(Science and Technology): Natural Sciences
- 2005-2006 Croucher Senior Research Fellowship

2005 APRU Fellowship
2002 - IBM Life Science Reference Site Principle Investigator
2000-2001 Baiyulan Award to Excellent Scientist
1998-1999 Wang Kwan Cheng Foundation Visiting Scholarship
1997 Excellent RGC-Funded Project
1991-1993 University of Toronto Open Scholarship
1989-1990 Special University of Toronto Entrance Scholarship

Publications:

Peer Reviewed Journal Articles

Rigil K. Yeung, Zheng-Hua Xiang, Shui-Ying Tsang, Rui Li, Timothy Y. C. Ho, Qi Li, Chok-King Hui, Pak-Chung Sham, Ming-Qi Qiao and Hong **Xue** (2018) *Gabrb2* knockout mice displayed schizophrenia-like and comorbid phenotypes with interneuron-astrocyte-microglia dysregulation. *Translational Psychiatry* (In press)

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Zhenggang Wu, Yuebin Ke, Xinyun Xu, Peggy Lee, Shui Ying Tsang, Wai-Kin Mat, Jianfeng Yang, Guohong Liu, Jianhui Yuan, Shengbin Li and Hong **Xue** (2017) Genetic variations underlying trichloroethylene-induced occupational medicamentosa-like dermatitis identified through massive parallel sequencing. *Biomedical Genetics and Genomics* 2(1): DOI: 10.15761/BGG.1000129

Rui Li, Wing Man Chan, Yiu Cheong Ho, Rigil Ken Yeung and Hong **Xue** (2017) Anti-aging and anxiolytic effects of combinatory formulas based on four medicinal herbs. *Evidence-based Complementary and Alternative Medicine* 2017: ID 4624069 (<https://doi.org/10.1155/2017/4624069>)

Hong **Xue** and J. Tze-Fei Wong (2017) Future of the genetic code. *Life* 7(1), 10 (doi: 10.3390/life7010010)

Ho, T. Y. C. and **Xue** H (2016) Dispersed mobile-phase countercurrent chromatography. *Separations* 3:32-39

Shui-Ying Tsang; Tanveer Ahmad; Flora Mat; Cunyou Zhao; Shifu Xiao; Kun Xia; Hong **Xue** (2016) Variation of global DNA methylation levels with age and in autistic children. *BMC Human Genomics* 10 (1): 31

Ho, T. Y. C. and **Xue** H (2016) Effects of 4 Flavonoids from *Scutellaria Baicalensis* on Different Cancer Cell Lines. *Modernization of Traditional Chinese Medicine and Material Medica* 18(11):1845-1854

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J. Tze-Fei Wong, Siu-Kin Ng, Wai-Kin Mat, Taobo Hu, Hong **Xue** (2016) Coevolution theory of the genetic code at age forty: pathway to translation and synthetic life. *Life* 6 (1): 1-38

Chunyu Liu, David Saffen, Thomas G. Schulze, Margit Burmeister, Pak Chung Sham, Yong-gang Yao, Po-Hsiu Kuo, Chao Chen, Yu An, Jiapei Dai, Weihua Yue, Miao Xin Li, Hong **Xue**, Bing Su, Li Chen, Yongyong Shi, Mingqi Qiao, Tiebang Liu, Kun Xia, Raymond C.K. Chan (2016) Psychiatric genetics in China: achievements and challenges. *Molecular Psychiatry* 21: 4-9

Jianfeng Yang, Xiaofan Ding, Shui-Ying Tsang and Hong **Xue** (2015) SAMSVM: a tool for misalignment filtration of SAM-format sequences with support vector machine. *Journal of Bioinformatics and Computation Biology* 13(6): 1550025

Yung Su Kim, Mei Yang, Wai-Kin Mat, Shui-Ying Tsang, Zhonghua Su, Xianfei Jiang, Siu-Kin Ng, Siyu Liu, Taobo Hu, Frank Pun, Yanhui Liao, Jinsong Tang, Xiaogang Chen, Wei Hao and Hong **Xue** (2015) *GABRB2* haplotype association with heroin dependence in Chinese population. *PLoS ONE* 10 (11): e0142049

Lei Zhu, Jing-yu Yang, Xue Xue, Ying-xu Dong, Feng-rong Miao, Yong-feng Wang, Hong **Xue**, Chun-fu Wu (2015) A novel phosphodiesterase-5 Inhibitor: Yonkenafil modulates neurogenesis, gliosis to improve cognitive function and ameliorates amyloid burden in an APP/PS1 transgenic mice model. *Mechanisms of Ageing and Development* 150: 34-45

Yogesh Kumar, Jianfeng Yang, Taobo Hu, Lei Chen, Zhi Xu, Lin Xu, Xiao-Xia Hu, Jian-Min Wang, Yi Li, Wai-Sang Poon, Weiqing Wan, Liwei Zhang, Wai-Kin Mat, Frank W. Pun, Peggy Lee, Timothy H. Y. Cheong, Xiaofan Ding, Jin-Fei Chen, Shao Li, Hong-Yang Wang, and Hong **Xue** (2015) Massive interstitial loss-of-heterozygosity as evidence for cancer being a disease of the DNA-damage response. *BMC Medical Genomics* 8:42

Shui-Ying Tsang, Lingling Mei, Weiqing Wan, Jun Li, Yi Li, Cunyou Zhao, Xiaofan Ding, Frank W. Pun, Xiaoxia Hu, Jianmin Wang, Junyi Zhang, Rongcheng Luo, Siu-Tim Cheung, Gilberto Ka-Kit Leung, Wai-Sang Poon, Ho-Keung Ng, Liwei Zhang, Hong **Xue** (2015) Glioma association and balancing selection of *ZFPM2*. *PLoS ONE* 10(7): e0133003

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Riffat Iqbal, Nusrat Jahan, Yisuo Sun, Hong **Xue** (2014) Genetic association of lipid metabolism related SNPs with myocardial infarction in the Pakistani Population. *Molecular Biology Reports* 41: 1545-52

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Wang, Feng, Zhiwen Xu, Lihuan Ren, Shui Ying Tsang and Hong **Xue** (2008) GABA_A receptor subtype selectivity underlying selective anxiolytic effect of baicalin. *Neuropharmacology* 55:1231-1237

Mak, Wai-Kin, Hong **Xue** and Jeffrey Tze-Fei Wong (2008) The genomics of LUCA.

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Feng Wang, Zhiwen Xu, Chun Tak Yuen, Chui Yin Chow, Yuk Long Lui, Shui Ying Tsang, and Hong Xue (2007) 6, 2'-Dihydroxyflavone, a subtype-selective partial inverse agonist of GABA_A receptor benzodiazepine site. *Neuropharmacology* 53:574-582

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Xue, H, CW Zhou, JH Wang and XM Dai (1997) Screening and initial characterization of mouse nck5ai gene. Society for Neuroscience 27th Annual Meeting. 144.5

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Wong JT and **H Xue** (1993) Coevolution mechanism of genetic code development. 15th International tRNA Workshop. Cap d'Agde, France. Invited lecture Dk

Ala, P, **H Xue**, L Leung, YQ Xue, JT Wong and DDS Yang (1993) Purification and crystallization of tryptophanyl-tRNA synthetase. American Crystallographic Association '92 Annual Meeting, Pittsburgh

Shen, WY, **H Xue** and JT Wong (1991) Study on *B. subtilis* tRNA^{Trp} identity. Proceedings, 14th International tRNA Workshop, Rydzyna, Poland, p.219

Xue, H (1986) Study on forced immobilization induced-pulmonary fat embolism in rabbits. The International Respiratory Failure Symposium, Nanjin, China

Xue, H (1983) Effect of cortisone on oleic acid-induced pulmonary damage in rabbits. Pathophysiological Symposium, Shanghai, China (Chinese)

Xue, H (1980) Oleic acid-induced pulmonary damage in rabbits. Annual Symposium of Shanghai Physiological Society, Shanghai, China (Chinese)

Invited Presentations:

Forward and reverse mutations in cancer development. The 9th International Symposium of Tumor Biological Diagnosis and Therapy. Nanjing, China, November 18, 2017

Neurotransmission and psychotic disorders: the story of a gene knockout mice. Annual Conference of the Society for Basic Theories of Chinese Medicine. Nanjing, China, October 28, 2017

Feature co-localization landscape of the human genome. Annual Symposium of International Collaboration Committee, China Society for Genetics. Xining, China, June 25-27, 2017

Precision medicine initiative: concepts and status. Exploration of creating modern TCM's basic theories – theory of liver visceral manifestation under precision medical background, Xiangshan science conferences. Beijing, China, May 24, 2017

Anticancer research in the era of precision medicine. China pharmaceutical university academic symposium series. Nanjing, China, April 28, 2017

The schizophrenia gene: from discovery to validation. 2017 International schizophrenia health education peak BBS, Changsha, China, April 22-23, 2017

Cancer genome transition from sub-normal tissue to cerebral metastasis. Brain 2017 Symposium (the 14th Asia Pacific Multidisciplinary Meeting for Nervous System Diseases) the Postgraduate Education Centre, Prince of Wales Hospital, Shatin on 6 -7 January 2017

Feature co-localization landscape of the human genome. International Conference on Genomics (ICG-11), Shenzhen, China, November 4, 2016

Feature co-localization landscape of the human genome: an essential map for precision medicine. The 8th International Symposium of Tumor Biological Diagnosis and Therapy. Nanjing, China, October 29, 2016

Massive interstitial loss-of-heterozygosity in the cancer genomes. ISRD & ATS Conference 2016, Shanghai, China, October 14-16, 2016

Feature co-localization landscape of the human genome. Global Conference of Chinese Genetists. Hangzhou, September 23-25, 2016

From a schizophrenia gene to genome scan. Seminar, Institute of Neuroscience, Chinese Academy of Science, Shanghai, June 23, 2016

Cancer genomics big data and precision medicine. Big data for precision medicine workshop, University of Hong Kong, Hong Kong, June 8, 2016

Neuropsychiatric phenotyping of *Gabrb2* knock-out mice. The 3rd Summit on Chinese Psychiatric Genetics. Wuxi, China, April 29-30, 2016

Epigenetics regulation of *GABRB2* and beyond. Environmental Epigenomics & Big Data Symposium. Space Institute of Southern China, Shenzhen, China, April 17, 2016

Genome scanning and precision medicine. Cancer Research Symposium. Taiyuan, China, December 18-19, 2015

The 9th Pong Ding Yuen International Symposium on Traditional Chinese Medicine – Chinese Medicine for Mental Health: From Bedside to Bench. Hong Kong, China, December 4-6, 2015

From SNP-based Association to NGS-based Discovery in Mental Disease Genetics. Hong Kong, China, October 28-29, 2015

From SNP to CNV: a paradigm shift in complex disease genetics. 2015 Summit of Chinese Psychiatric Genetics, Kunming, China, April 12-13, 2015

GABRB2 in Schizophrenia: a schizophrenia candidate gene shared by multiple psychiatric disorders. World Psychiatric Association Regional Congress. Hong Kong, December 12-14, 2014

GABRB2 in schizophrenia and beyond. XXII World Conference of Psychiatric Genetics. Copenhagen, Denmark, October 12-16, 2014

AluScan and its application in cancer genomics. Department of Chemical Pathology, Chinese University of Hong Kong, September 19, 2014

Alu transposable elements associated instability in cancer genome. Gordon Research Conference: Genomic Instability. Hong Kong, China, July 6-11, 2014

A decade research in psychiatric genetics: from hypothesis-driven to hypothesis-free. 2014 Summit of Chinese Psychiatric Genetics, Changsha, China, April 1-3, 2014

Synergist and antagonist effects of herbal components of an anxiolytic formula. Beijing University of Chinese Medicine Annual Symposium, Beijing, China, November 7-8, 2013

Development of effective therapeutics targeting the GABA receptors: A decade of research on GABA receptors. Beijing University Symposium Series on Pharmacy, Beijing, China, December 17, 2012

TCM-derived therapeutics for neuropsychiatric disorders. The 4th Annual World Pharmaceutical (China) Summit, June 6-8, 2012, Shanghai, China

Accelerating cancer genomic discoveries with AluScan: a method for genome-wide scanning of sequence and structure variations. 2011 International Symposium on Progress in Cancer Biological Diagnosis and Treatment, Nanjing, China, October 29-30, 2011

Effective analysis of structural variations in cancer genome by inter-Alu next generation sequencing. Cancer 2011. Hong Kong, July 15, 2011

GABRB2 in schizophrenia and bipolar disorder. The 2nd Joint International Conference of the Hong Kong College of Psychiatrists and the Royal College of Psychiatrists (UK): Advancing Psychiatric Care in the East: Moving on – From Science to Service. Hong Kong, 11-13 December 2010

Inter-Alu next generation sequencing (IAN): a new method for genome-wide detection of hot-spot mutations. The 9th Asia-Pacific Conference on Human Genetics. Hong Kong, December 1-3, 2010

Genome-wide capture of mutation hot-spots for large-scale sequencing in disease population surveys. The Fifty International Conference on Genetics. Shehzhen, China, November 15-18, 2010

GABRB2 in schizophrenia. 4th Annual Scientific Meeting of the Hong Kong Society of Biological Psychiatry. Hong Kong, 9 January, 2010

A schizophrenia candidate gene may be important in human cognition. 4th National Symposium on Brain and Cognition. Chengdu, China, 25-27 November, 2009

Development of effective therapeutics targeting the GABA_A receptors: naturally occurring alternatives from Chinese herbal medicine. International Conference and Exposition on Traditional Medicine. Guangzhou, China, 9-11 November 2009

GABRB2 in major psychotic disorders. International Conference on Genomics, Shenzhen, China, 2-5 November 2009

GABRB2 in major psychotic disorders: association, expression and antipsychotics dosage correlation. International Conference on Personalized Medicine, Hong Kong, China, 19-20 September 2009

GABRB2 in schizophrenia and bipolar disorder. Neuronal glutamate and GABA_A receptor function in health and disease. Biochemical Society Focused Meeting, St. Andrews University, UK, 21-24 July 2009

OLE - One Label Extension, a novel genotyping technology developed in Hong Kong. Biomarkers for early detection of cancers: technological advances and clinical readiness, Croucher Advanced Study Institute, The University of Hong Kong, March 30 – April 3, 2009

Ongoing Recombination and Positive Selection in GABA_A Receptor β_2 Gene Underlying Schizophrenia Aetiology. Symposium on Bioinformatics and Data Mining, Hong Kong Baptist University, 26-27 Feb 2009

Epigenetics of Psychiatric Disorders. National Society of Toxicology Workshop, Shenzhen, November 8-12, 2008

A Decade of Research Leading to Personalized Care of Complex Mental Disorders. 2008 Conference on Personalized Medicine in Greater China, Shenzhen and Hong Kong, September 1-2, 2008

Resolving the Central Paradox of Schizophrenia on the Basis of Recombination-selection Balance. The XX International Congress of Genetics, July 14, 2008, Berlin, Germany

System biology for schizophrenia. International Workshop on System Biology of Neurons: from Genes to Cognition, July 11, 2008, Cachan, Paris, France (www.enfin.org)

Recombination in the schizophrenia-associated and positively selected *GABRB2*: implication to the origin of psychosis. ACGA-HKSMG International Conference on Genetic and Genomic Medicine, June 11, 2008, Hong Kong

Chinese herbal medicine derived anxiolytics targeting at GABA_A receptors. BioX@Science Park, 28 April 2008, Hong Kong

Positive selection in the schizophrenia-associated GABA_A receptor β_2 gene. The 2nd annual International Conference on Genomics. Oct. 30 – Nov. 1, 2007, Shenzhen, China

Ongoing Recombination and Positive Selection in GABA_A Receptor β_2 Gene Underlying Schizophrenia Etiology. WPA Regional Conference and Chinese Psychiatric Society Annual Congress, Shanghai, China, 21 September 2007

Discovery and characterization of a schizophrenia gene under positive natural selection. *New Frontiers in Computational Biology*. Third Vital-IT Annual Symposium. University of Lausanne. September 11-12, 2007, Lausanne, Switzerland (http://www.vital-it.ch/vitalit-conf_2007.htm)

A decade of research on GABA_A receptors. Beijing University of Chinese Medicine. May 31, 2007, Beijing, China

Cross-population validation of schizophrenia-association and functional analysis on mRNA expression and electrophysiological properties of two isoforms of *GABRB2*. XIV World Congress on Psychiatric Genetics. Oct. 28 – Nov. 1, 2006, Cagliari, Italy

High throughput SNP-haplotype analysis of the *GABRB2* gene: distinct genetic findings in cycloid psychosis and chronic schizophrenia. International Congress of Neuropsychiatry. September 10 – 14, 2006, Sydney, Australia

A decade of GABA_A receptors. Nansha Science & Technology Forum: Bioinformatics & Future Medicine. August 25-26, 2006, Nansha, Guangdong, China

Two alternative splicing isoforms of GABA_A receptor β_2 subunit differentially expressed in schizophrenia. International Congress of Global Congress of Geneticist (ICGCG), August 2-4, Beijing, China

A decade of research on GABA_A receptors at HKUST. The 9th national symposium on biochemical pharmacology. September 21 – 23, 2005, Hefei, China

A multi-population study on SNPs and haplotypes in *GABRB2* associated with schizophrenia. The 3rd Hong Kong Medical Genetics Conference. April 8-10, 2005 Sheraton Hotel, Tsimshatsui, Hong Kong, China

Development of therapeutics targeting at the GABA_A receptors. China-EU Workchop on New Developments in Pharmaceutical Biotechnology Focusing on New Drug Targets and Animal Models, October 18 -20, 2004, James D. Watson Institute of Genome Sciences & Hangzhou Genomics Institute, Hangzhou, China

Disease-SNP relationships in China. China-EU Colloquium on “Functional Genomics and Technology Transfer”, BioVision, April 7, 2003, Lyon, France (Organized by European Focus on Biotechnology in China)

System for Integrating Data on GABA Receptors. BioITWorld. Feb. 25-26, 2003, Hong Kong (Keynote Speaker)

Ala-substitution mutagenesis in identification of structure and benzodiazepine-binding determinants in the GABA_A receptor. Society for Neuroscience Annual Meeting, November 3, 2002, Orlando, FL, USA

A structure biology approach to GABA_A receptor assembly. The 2nd International Neuroscience Symposium for Young Chinese Scholars. August 5-9, 2002, Chengdu, China

Modular Structure of GABA_A Receptor and Possible Folds of its Extracellular Domains. Society for Neuroscience Annual Meeting, 11-15 November 2001, San Diego

Modular Structure of GABA_A Receptor and Importance of the Cys-Trp Residues. The Chinese Society for Neuroscience The Fourth Biennial Meeting. July 29 – August 3, 2001, Hong Kong, China (Organizing Committee Member)

An integrated bioinformatics system for GABA receptors. China-EU Workshop on Bioinformatics in the Post-Genome Era. June 12-17, 2001, Shanghai, China (Organized by Chinese Academy of Science, Shanghai Life Science Centre)

System for integrating data on GABA receptors. Third Annual Integrated Bioinformatics: High Throughput Interpretation of Genes and Proteins. January 24-26, 2001. In conjunction with Lab Chips and Microarrays, January 22-24, Swissotel, Zurich, Switzerland (Organized by Cambridge Health Institute)

Discovery of GABA_A receptor active components in Chinese medicinal herbs. ISCMC 2000. Oct. 15-19, 2000, Chengdu, Sichuan, China (Organizing Committee Member) (Organized by School of Pharmacy, West China University of Medical Science)

Bioinformatics: a tool of discovery. 7th National Symposium on Biochemical Pharmacology, Chinese Pharmacology Society, Sept. 23-27, 2000, Suzhou, Jiangsu, China

Understanding GABA_A receptor structure. GABA 2000, July 23-29, 2000, Palm Cove Courtyard Marriott, Cairns, Queensland, Australia (Organized by Division of Biochemistry and Molecular Biology, John Curtin School of Medical Research, Australian National University)

A structure and functional domain of GABA_A receptor. Symposium on Neuroscience for Young Chinese Scholars Worldwide, June 11-16, 2000, University of Science and Technology of China, Hefei, Anhui

A structural domain of GABA_A receptor. April 12, 2000, An Invited Seminar, Pharmacological Institute, University of Bern

Towards the structural basis of GABA_A receptor function. Symposium on Neurotransmitters and Receptors — Biophysics, Physiology and Pharmacology. (1999) Wuhan, China

Dissecting the GABA_A receptor structure. The 21st Century Life Science Workshop for Oversea Chinese Scholars. (1999) Shanghai, China

Towards the structural resolution of GABA_A receptor. Symposium of Structural Biology in 1999. (1999) Zhangjiajie, Hunan, China

Identity elements of tRNA^{Trp} and evolution. 109th Xiang-Shan Scientific Policy Advisory Forum (1998) Beijing, China

Bioinformatics promoting both basic and applied research. Symposium on Bioinformatics in Service of Research and Industry (1998) Hong Kong

Molecular phylogeny of GABA_A receptors. 73rd Xiang-Shan Scientific Policy Advisory Forum (1997) Beijing, China

Bioinformatics and the Human Genome Project. Symposium on the Human Genome Project. (1997) Shenzheng, China

Expression of an extracellular domain of GABA_A receptor. Symposium on Advances in Biotechnology. Asia Pacific Society of Bioscientists Second International Symposium & Workshop (1996) Hong Kong

Structural analysis of an extracellular domain of GABA_A receptor. '96 International Workshop on the Impact of Developmental Genetics on Biotechnology (1996) Shanghai, China

Hyperexpression of GABA_A receptor fragments. Symposium for Young Scientists on Structural Biology (1996) Hefei, China

Patents:

Xue, Hong, Kwok Min Hui, Hongyan Wang and Hui Zheng: Compound for Treatment of Anxiety and Methods of Preparation and Use Thereof. US 7,183,314 B1; China ZL02829534.X

Xue, Hong and J. Tze-Fei Wong: Method for Detecting Single Nucleotide Polymorphisms (SNPs) and Point Mutations. US 6,972,174 B2; China ZL 200410029526.9

Xue, Hong, Hongyan Wang, Kwok Min Hui and Shing Yan Michael Huen: Methods of treating benzodiazepine site (BZD-S) associated syndromes using 2'hydroxyflavonoids. US 6,740,677 B2; Chinese ZL03819525.9

Xue, Hong and Alan Law: Novel Uses of dl-THP. US 6,521,634

Xue, Hong and J. Tze-Fei Wong: A Chinese Medicine Composition: Calmlin. China ZL200410069787.3