

## 4. Highlights of Achievements

### 4.1 Strategic planning and Scientific Research Arrangements

- A strategic planning committee (SPC) was founded, where the Director General works as the SPC Director, and the Deputy Director General in charge of scientific research as vice SPC director, and members of the academic committee as the commissioners.
- Planning strategies of third phase were formed based on interactive information flow management system.
- The research projects were assigned strictly surrounding four key research fields, seven aspects for basic research and five aspects for applied basic research.
- Started-up five scientific research supporting platforms, deployed 21 innovation research groups and three newly recruited talent groups, enabling the research groups and units to form a reasonable subject orientation and ecotype status of scientific research.



### 4.2 Completion and publication of the largest regional flora in China, Flora Yunnanica

The state-key research project of compilation of *Flora Yunnanica*, presided by Prof. Wu Zhengyi, academican of CAS and financially supported by Yunnan Department of Science and Technology and Biology Bureau of CAS, successfully passed the examination and appraisal conducted by experts of similar fields and organized by Yunnan Department of Science and Technology. The huge compilation project includes 21 volumes, 24.52 million words, 4,263 line illustrations, costing 33 years and eight million RMB yuan. *Flora Yunnanica* is presently the largest regional flora in China, possibly the largest in the whole world, which is another magnum opus of plant science after the publication of *Flora Reipublicae Popularis Sinicae* in 2004. The completion of this flora is of great significance for studies on plant diversity in Yunnan and even throughout China, holding great values in scientific theories, ecological conservation and utilization of economic development in relative industries.



### 4.3 Completion of the main buildings and affiliated infrastructures of the Germplasm Bank

The main buildings and affiliated infrastructures of the Southwest China Wild Species Germplasm Bank has been completed and put into use. A species collecting network consisting of 13 university or research institutes was established through undertaking the project of scientific & technological basic platform of the Ministry of Science and Technology. To date, 4,207 accessions of seed of wild plant species, 2,687 datasheets and 1,133 specimens have been collected and conserved in the bank.

### 4.4 Founding of the Key Laboratory of Biodiversity and Biogeography, CAS

CAS issued the notice concerning the establishment of six CAS key laboratories including animal ecology lab and conservation biology lab and about the name change of Key Laboratory of Proteomics, CAS. Relying on the existing conditions of KIB, the Key Laboratory of Biodiversity and Biogeography, CAS was authorized to be founded, which is a great breakthrough in construction of key laboratories of KIB.

### 4.5 One research proposal of 973 Project and two joint research proposals with Kunming Institute of Zoology submitted by KIB were selected and included in the 2007 CAS Project Application Manual





#### 4.6 Construction projects during the 'tenth five-year plan' at KIB are all close to completion with significant achievements in 2006

In 2006, basic construction projects at KIB all entered the stage of completion. By means of implementing highly-effective system, scientific management, valuing advice of different -departments, receiving actively the supervisions from the Workers' Union and discipline committee and strictly controlling the proceeding, quality and investment, the steady advances and safety of investment capitals of basic construction projects at KIB, which is an important part of the Knowledge Innovation Program, were guaranteed. These progresses and achievements of basic construction project at KIB were the result of firm supports from both leaders of the institute and from the construction leading group, and of standard operation of project, strict management, clear target, high-efficient implementation and close collaboration of different parts. The principle of giving priorities to planning and practical functions, strictly controlling expenses and incorruption construction also contribute to the projects.

#### 4.7 ARP System of KIB was rated as A Type, making KIB the second unit among institutions of CAS and the first one among institutions outside Beijing that has passed the final evaluation and started to function online

On basis of provisions of Examination Procedures of Implementation of Institute-level Academia Resources Planning (ARP) (first phase) Program, KIB successfully passed the acceptance test sponsored by ARP Management Office of CAS. The formal transfer of ARP System, provided a high-level platform for the institute's management innovation. The APR System has already proved to be effective in management, statistical accuracy, time inquiries, integral information and data sharing. Through continuous practice and testing, the ultimate goal of scientific decision-making, optimum resources configuration, collaboration of management and normalization of workflow and sharing of information will be achieved, contributing to the realization of 'Four-First-Class' goal.

#### 4.8 KIB maintains the leading position at CAS in terms of publicizing management information and its propandas

In the past year of 2006 (Nov. 2005 to Oct. 2006), KIB spared no efforts to encourage the academicians, experts, scholars as well as NPC Delegates and CPPCC Members to provide services for scientific and democratic decision-making of government, for governing on law and for strengthening administration supervising; to give suggestions and advice for social, economic and scientific progress on both national and local levels; and to faithfully report the administrative and party affairs as well as innovative achievements of KIB to CAS and government of different levels. This section of work received high-degree concerns from national leaders and from CAS leaders. As regard the affairs of administration information, KIB continually maintains an encouraging development trends based on the foundation in 2005 (ranked No. 7 at CAS). KIB was rated 'Well-performance Unit of Administration Information of CAS' each quarter and rewarded 2006 Excellent Unit and Excellent Individual in administration information affairs. KIB obtained the annual score of 495.5, ranking No. 5 among the 142 units participating in the rating system following the units including Institute of Zoology, Bureau of Academician Affairs, Shanghai Institutes for Biological Sciences and Academy of Mathematics and Systems Science (AMSS).

### 4.9 Successful convocation of International Symposium on Biodiversity and Biogeography in East Asia

Over 70 Chinese and foreign well-known experts participated in the International Symposium on Biodiversity and Biogeography in East Asia held in Kunming, China from July 14th to 15th. During the two-day symposium, 16 presentations were given and academic exchanges made on latest researches in the field of biodiversity and biogeography. Those latest researches include current status of the world's biogeography research, the origin and evolution of flora in East Asia, latest development in molecular evolution and plant phylogeny and latest progress in biodiversity protection and sustainable utilization. On the symposium, discussions and exchanges concerning research key-points of future biodiversity and biogeography, research topics of priority and cooperation mechanism were carried out. Current research status and policy differences of biodiversity and sustainable utilization were analyzed, with a proposal of building a wider international cooperation partnership relationship and constructive suggestions and advice for undertaking cross-subject researches on biodiversity and protection projects.

### 4.10 New drug series, fenclodone of independent intellectual property obtained permission to enter the stage of clinical drug trial

With different types of substituted pyrrolidone new compounds as the research subjects, fenclodone aims to develop innovative drugs for Alzheimer's diseases and memory disorders. The permission of clinical trial of the State Food and Drug Administration symbolized that the drug research project that involved scores of researchers of eight research groups from 5 units and was supported by 1035 Program, 863 Program of Ministry of Science and Technology, National Science Fund for Distinguished Young Scholar, National Natural Science Foundation, Ninth Five-year Plan, Tenth Five-year Plan Key Program of CAS and Yunnan Key Program, has achieved staged breakthrough.

### 4.11 Other new drug development

- The new drug, erigeron phenols, enters the stage of third-phase clinical trials;
- Several new anti-HIV/AIDS drugs enter the stage of clinical trials;
- The new medical material and new drug, 'Emei Capsule' will be registered to be new drug;
- The library of natural-product compounds is growing in size, aiming to be the important resource center for screening of new drugs.

### 4.12 Prof. Zhou Jun, academician of CAS, won the Award for Scientific and Technical Outstanding Contributions of Yunnan Province

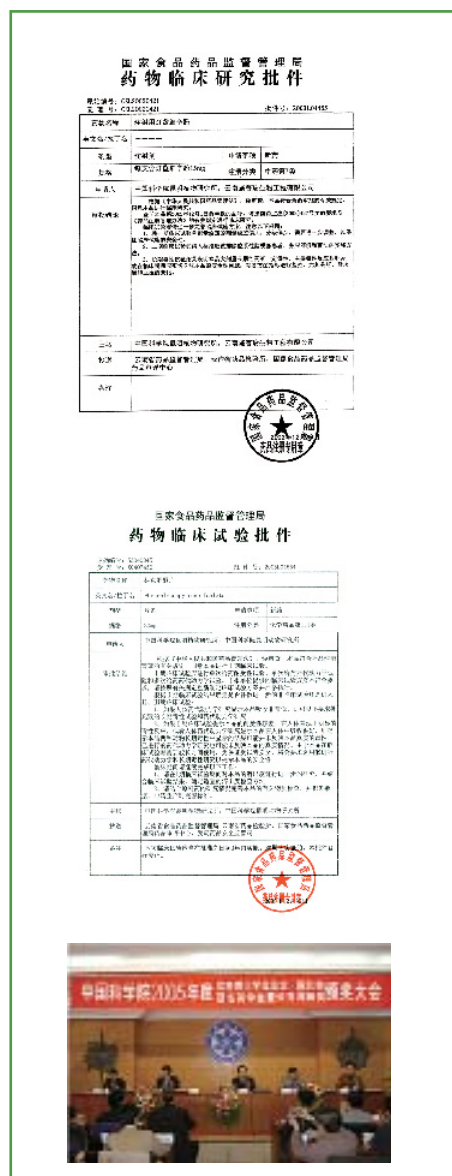
According to the determination made by Yunnan Provincial Government concerning 2006 science and technology award, Prof. Zhou Jun, academician of CAS was given the Award for Scientific and Technical Outstanding Contributions of Yunnan Province. The highest level award of science and technology in Yunnan has been once given to four famous scientists, Jiang Zhinong, Wu Zhengyi, Dai Yongnian and Zhang Yaping, and academician Zhou Jun became the fifth famous scientist who received this distinguished honor.

### 4.13 The doctoral dissertation of Dr. Li Rongtao was rated to be the 2006 National Excellent Doctoral Degree Dissertation

The doctoral dissertation of Dr. Li Rongtao, 'Studies on Chemical Constituents and Bioactivity of Five Medical Plants of Genus *Schisandra* and *Elsholtzia bodinieri* V.', under supervision from academician Sun Handong, was rated to be the 2006 National Excellent Doctoral Degree Dissertation, symbolizing the achievements of education for graduate students at KIB.

### 4.14 Bilateral cooperation relationship was established between KIB and Swiss leading pharmaceutical company, Novartis

A three-year cooperation agreement was signed with Swiss leading pharmaceutical company, Novartis aiming to isolating and extracting pure natural compounds from plants designated to be potential medical material and action agent for health of human well-being and animals.



The image contains three distinct parts:
 

- Top Document:** A 'Drug Clinical Research Approval Document' (药物临床试验批件) issued by the State Food and Drug Administration (SFDA) on July 14, 2006. It includes fields for drug name, manufacturer, and clinical trial details.
- Middle Document:** Another 'Drug Clinical Trial Approval Document' (药物临床试验批件) issued by the SFDA on July 14, 2006, with a red circular official seal.
- Bottom Image:** A photograph of a symposium titled '中国科学院2005年度国际学术论坛暨昆明国际生物多样性与生物地理学大会' (International Academic Forum of the Chinese Academy of Sciences 2005 and Kunming International Symposium on Biodiversity and Biogeography).

#### 4.15 The project of anniversary celebrity activity was started

The anniversary celebrity activity was started on July 24th, commemorating the spirit of dedication, industriousness and commitment to innovation of scientist of older-generations. Major celebrity activities included National-Flag Raising Ceremony, conference of entire staff, and activities of popular science, etc.

#### 4.16 Inspections and visits by top leaders of China

- On May 14th, Chinese President Hu Jintao inspected KIB, highly praising the historic achievements made by KIB scientists of older generations and stressing the significance of basic researches in technological innovation and industrialization. Mr. Hu's inspection and remarks suggest high-degree concern of both the Party and nation in recognizing KIB's critical role in building innovation country, especially in the fields of biosciences, biological industry, biodiversity conservation and sustainable development.
- Former Chinese Premier, Zhu Rongji visited KIB on July 31st and was very happy to witness the completion of Southwest China Wild Species Germplasm Bank, which is the national key science and technology project authorized by himself. Mr. Zhu commented that KIB did a very good job and the construction of Wild Species Germplasm Bank had made great achievements.
- Vice Premier, Mr. Zeng Peiyan visited KIB on August 13th and pointed that the scientist of older-generation had made great contributions for plant scientific research in China and scientists of young-generation can also be able to take roots in the border areas, making remarkable achievements, and that there is a splendid future to carry out scientific research of plants in Yunnan.
- CAS President, Prof. Lu Yongxiang visited KIB on August 7th and expressed his high-degree satisfaction on changes of environment of KIB, on scientific research situations and on administration work of democratic decision-making. He also proposed higher demands and requirements for KIB.

#### 4.17 Inspections and visits by other senior government officials

- During his visit on February 22nd, Chen Yiyu, director of National Natural Foundation of China, recognized and appreciated the progresses KIB has made in recent years.
- On March 20th, the Party Secretary of Yunnan Bai Enpei and governor, Qin Guangrong made a study visit on KIB, focusing on development of biology industry in Yunnan, The leaders underscored the crucial role of KIB in development of biology industry in Yunnan.
- On August 14th, vice president of CAS, Prof. Chen Zhu listened to the exclusive report of KIB at Kunming Hotel and inspected KIB on October 31st, outlining new requirements for KIB's development.

#### 4.18 Strengthen management of visual identification system and propagandas of ideas in combination with Innovation Culture Construction Program

In order to implement the provisions of Work Standards for Information Propagandas of CAS, KIB completed the KIB Visual Identification System Manual in June 2006 that was submitted to KIB institute conference and was passed on December 1st, 2006. The making and using of new visual identification system will be helpful to integral image identification and management, to consensus for external propagandas work and to unity and teamwork of KIB.

