



中国科学院  
CHINESE ACADEMY OF SCIENCES



## FOR IMMEDIATE RELEASE

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### China's Botany Institute Finds Plant Mutations with New Technology

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In the world of genetics and genomics, the object of the game is to detect mutations in genes as completely and quickly as possible. One mutation detection method is called "TILLiNG"-- Targeting Induced Local Lesions in Genomes. Until recently, TILLiNG techniques had limited efficiency because they are labor-intensive and slow.

However, the Institute of Botany for the Chinese Academy of Sciences has accelerated their TILLiNG research efforts by utilizing the *Fragment Analyzer*<sup>™</sup> Automated CE System.

"The *Fragment Analyzer* helps us to achieve high-throughput detections of SNPs (single nucleotide polymorphisms) in a much faster and automatic manner," says Dr. Chun-Ming Liu, Director, Key Laboratory of Plant Molecular Biology at the Institute of Botany. "We have used the *Fragment Analyzer* to screen mutations in TILLiNG and ECOTILLiNG for functional genomics."

When the Institute of Botany wanted to improve TILLiNG methods, they conducted a rigorous review. "We decided to purchase the *Fragment Analyzer* over other platforms after some careful evaluations," said Dr. Liu. "We are very pleased with our purchase of the *Fragment Analyzer*."

Manufactured by Advanced Analytical Technologies, Inc. (AATI), in Ames, Iowa, the *Fragment Analyzer*<sup>™</sup> is a capillary electrophoresis instrument for analyzing DNA and RNA. The product is sold and serviced throughout China by Spectron Scientific Co., Ltd, a Beijing-based instrument company.

"We are pleased to be distributing the *Fragment Analyzer* from Advanced Analytical because of the instrument's capabilities, specifically for plant researchers working on TILLiNG and plant genotyping," said Dr. Jim Zhu, President of Spectron Scientific. "The instrument provides all the key benefits researchers need...throughput, accuracy, sensitivity and usable analytical software. Specifically with our TILLiNG customers, the *Fragment Analyzer* provides many benefits over the traditional manual methods, allowing more samples to be analyzed faster and with less effort and consumption of their genomic DNA."

Numerous *Fragment Analyzers* have already been placed in China during the initial product introduction phase, including a half-dozen in Beijing alone.

"Though the Chinese marketplace is huge, we are confident that the sales and technical staff from Spectron can cover this market," said Dr. Steven J. Lasky, CEO of Advanced Analytical. "By working with key opinion leaders in their respective fields, Spectron's staff has been able to place instruments at key sites and raise the awareness of the *Fragment Analyzer* to other parties. We are excited to have Spectron as one of our key distributors."

**About Spectron Scientific Co, Ltd**

Spectron Scientific Co, Ltd imports and distributes a wide variety of instruments and reagents from global manufacturers while providing its customer base the highest level of technical support services. For more information visit the company's website at <http://www.spectron.com.cn/index.asp>.

**About Advanced Analytical**

AATI provides innovative solutions to improve processes and accelerate research results through quality data output within the pharmaceutical, life science, biofuels and biotechnology markets. AATI's product portfolio includes instruments for the parallel analysis of biomolecules, nucleic acids and proteins by capillary electrophoresis as well as a full line of certified reagents and off the shelf kits to meet customer needs. Founded in 1997, AATI has facilities in Ames, Iowa, USA and Heidelberg, Germany as well as a network of highly qualified distributors throughout the world. For more information visit the company's website at <http://www.aati-us.com> or contact us at [info@aati-us.com](mailto:info@aati-us.com)

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