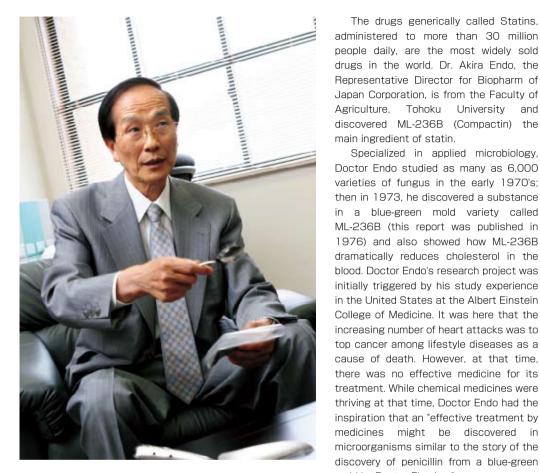
Research for Enhancement of the Future Honored with World-famed Academic Achievements

Our Products are the Most Widely Used Drugs in the World



Specially Appointed Prof. Akira Endo Born in 1933, he graduated from the Faculty of Agriculture, Tohoku University and in 1966-1968 studied in the United States, at the Albert Einstein College of Medicine.



Dr. Endo's fundamental work in microbiological study is in sampling soil. A hole 15 cm in diameter and 15 cm deep is dug in the ground for sampling soil, ther microorganisms in the are examined



The drugs generically called Statins,

administered to more than 30 million people daily, are the most widely sold drugs in the world. Dr. Akira Endo, the Representative Director for Biopharm of Japan Corporation, is from the Faculty of Agriculture, Tohoku University and

discovered ML-236B (Compactin) the

1976) and also showed how ML-236B dramatically reduces cholesterol in the

blood. Doctor Endo's research project was

initially triggered by his study experience

in the United States at the Albert Einstein

College of Medicine. It was here that the

increasing number of heart attacks was to

top cancer among lifestyle diseases as a cause of death. However, at that time,

there was no effective medicine for its

treatment. While chemical medicines were

thriving at that time. Doctor Endo had the

inspiration that an "effective treatment by

medicines might be discovered in

microorganisms similar to the story of the

discovery of penicillin from a blue-green

many awards including the 2006 Massry

Prize in the United States and the 2006

(22nd) Japan Prize, presented for his

to

the

contribution

Doctor Endo has been honored with

mold by Doctor Fleming."

advancement of medicine

enormous

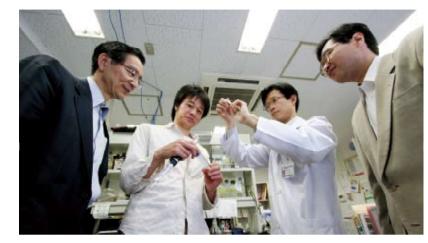
Specialized in applied microbiology, Doctor Endo studied as many as 6.000 varieties of fungus in the early 1970's; then in 1973, he discovered a substance in a blue-green mold variety called

main ingredient of statin

"Statin," a new drug, effectively reduces cholesterol in blood

Specially Appointed Professor Akira Endo, Graduate School of Agricultural Science http://www.biopharm.co.jp/

Discovering the Mechanism for Reducing Obesity and Diabetes



[Division of Molecular Metabolism and Diabetes] Professor Yoshitomo Oka

Born in 1949, he graduated from the Faculty of Medicine, University of Tokyo. He worked at the University of Tokyo Hospital, University of Massachusetts Medical School, and then the Faculty of Medicine, Yamaguchi University. In 2001, he joined Tohoku University, as a professor at the Graduate School of Medicine. Since 2004 he has been the Associate Dean of the Graduate School of Medicine. (Left in the picture)



Science Prize plaque

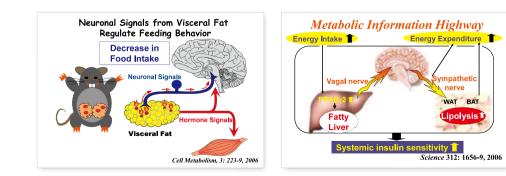
[Division of Advanced Therapeutics for Metabolic Diseases] Professor **Hideki Katagiri**

Born in 1962, he graduated from the Faculty of Medicine. University of Tokyo. He worked at the University of Tokyo Hospital, and then became a professor at the Graduate School of Medicine. Tohoku University in 2003. (Right in the picture)

A research team composed of Professor Hideki Katagiri (Center for Traslational and Advanced Animal Research) and Professor Yoshitomo Oka (Department of Internal Medicine) was the first in the world to discover the existence of "an inter-organ neural network for metabolic information." When fatty liver was induced in mice, the basal metabolism responded actively to reduce fat accumulation in fat tissue. This inter-organ neuronal system functions as a protective machinery against obesity

Professor Oka states that: "The brain cells receive neural signals sent from the liver and instruct the fat tissue to decompose fats by becoming more actively metabolic. The brain plays the role of conductor for the entire body, the orchestra." This discovery anticipates great research advances, especially in the fields of biology and medicine. Its clinical application, of course, will be in the prevention of obesity and establishment of new means of treating it. "This discovery opens up a new field for research," said Professor Katagiri.

Professor Oka has been honored with many awards, including the Japan Diabetes Society Award in 1990. Professor Katagiri was awarded the Japan Society for the Promotion of Science Prize (FY2006), which is given to young researchers who have produced notable research and achievements. Their research results were published in the US journal Science (Vol. 312, June 16, 2006).



Professor Yoshitomo Oka, Graduate School of Medicine, Tohoku University http://www.med.tohoku.ac.jp/room/146/japanese.html Hideki Katagiri, Graduate School of Medicine, Tohoku University http://www.med.tohoku.ac.jp/room/222/japanese.html

Research Excellend