



Research Highlights 2010

Mahidol University has achieved international status in its research in biomedical science and natural science. Most of the University's science-based research has direct applications in healthcare, therapeutic interventions, environmental management, biotechnology and food technology. In 2010, through the external research evaluation by the Thailand Research Fund (TRF), Ministry attached to the Prime Minister's Office, Mahidol University was given the highest rating in the fields of science, biotechnology, medicine and health sciences. The University continues to develop research capacities in social sciences, arts and humanities and environmental management.

Our research excellence reflects the quality of staff and their activities, and the University's success in attracting and supporting research students to successful completion. The networking of the university central instrument facilities, including a new facility on Salaya Campus, together with our University Library and Resource Center that accommodates the most comprehensive journal database in Thailand, surely help the University's thriving research community. Online databases provide full-text access to more than 32,270 e-journals campus wide. Mahidol University boasts many well-established, high quality research groups providing a strong and supportive environment in which research prospers.



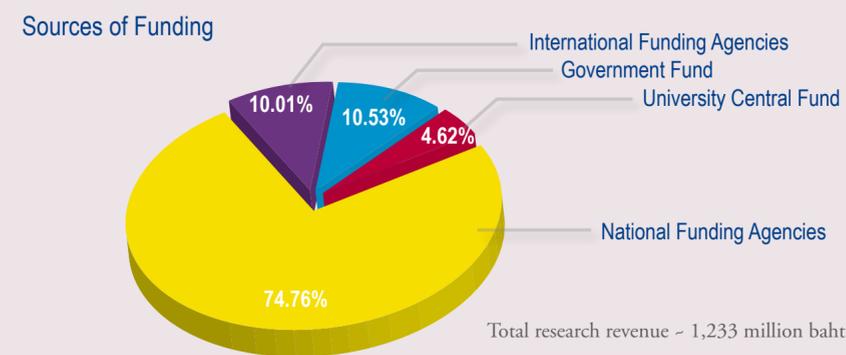
“Rating 5/5”
The Thailand Research Fund Recognizes MU quality research output in Science, Medicine, Health Science and Biotechnology.

Prestigious grants have been received from government funding agencies namely, the National Research Council of Thailand (NRCT), the Thailand Research Fund (TRF), the National Science and Technology Development Agency (NSTDA), the National Health System Research Agency, and the Office of Commission on Higher Education (CHE). These account approximately 70% of the total university research revenue. In 2010, Mahidol University has dedicated a central fund of 78 million baht from its own resources to support capacity building such as fundings of postdoctoral fellows, young staff and their career development. Part of this fund was also allocated to embryonic areas of research which are of the

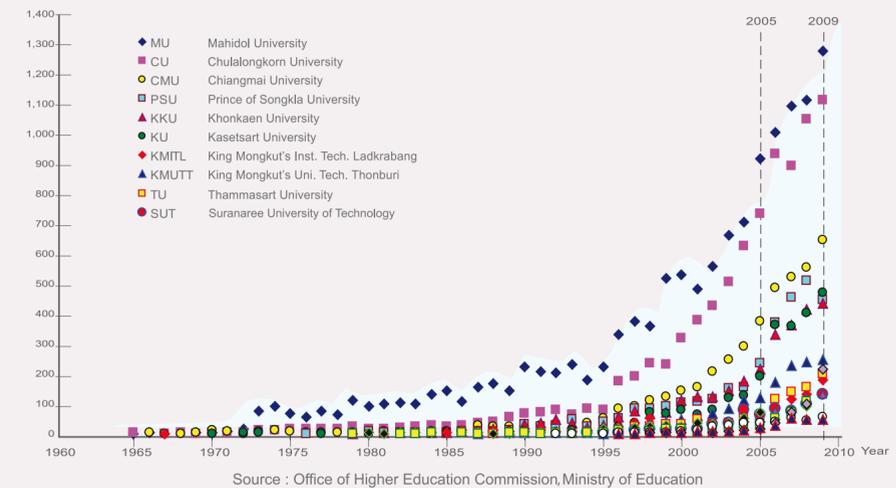
University’s own interest. Through the national and international competitions, Mahidol University received similar amount of research supports from both government fiscal year budget and international funding agencies 2010. With the excellent track record in research output both in terms of quantity and quality, Mahidol University is also recognized as one of the nine research universities by the Office of Commission on Higher Education, Ministry of Education. It was nominated from the Ministry of Commerce in September 2010 as the leading university for the establishment of Creative Academies on Traditional Medicine, Performing Arts, and Cultural Tourism.



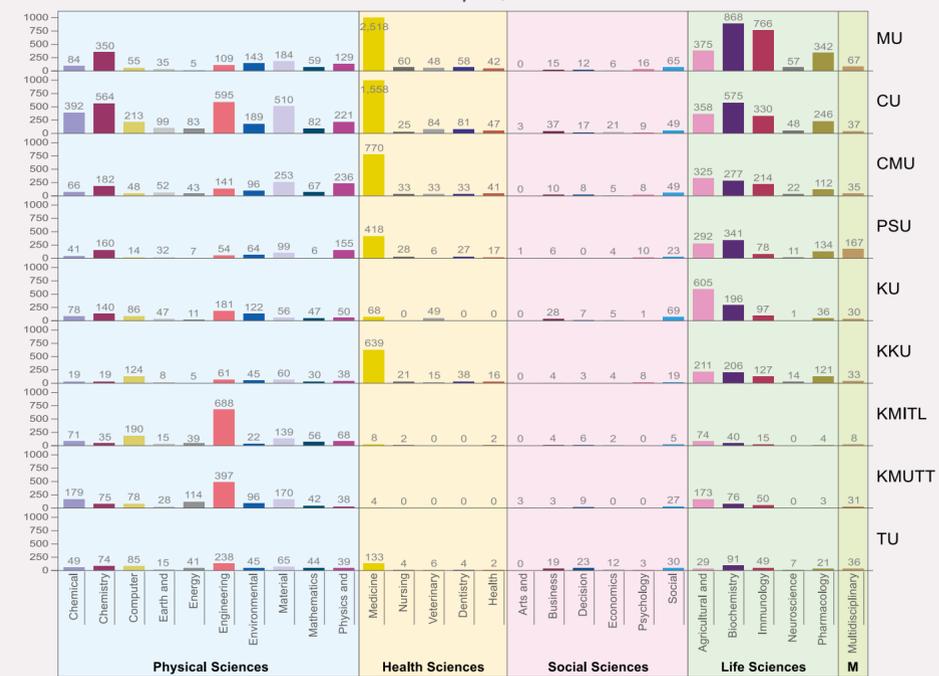
Mahidol University Research Fund 2010



International Research Publications Record of Thai Universities in Scopus Database



Fields of Strength of Top 9 Thai Universities Data from Scopus, 2005-2009



“Mahidol University, above all, aims to provide high quality research for the real world--research that improves social well-being.”

For this newly launched Creative Academy project, the Ministry expects the leading university to develop a research-driven, knowledge transfer partnership that eventually results in economic value chain creation.

Mahidol University, above all, aims to provide high quality research for the real world-research that improves social well-being. For further information, please see *Research at MU 2010*

“Creative Academy”



National and International Recognition

Mahidol's staff has won the **National Outstanding Scientists** and **National Researcher Awards for 2010**



Prof. Prasert Auewarakul



Dr. Visith Thongboonkerd



Prof. Virapong Prachayasittikul



Prof. Wanpen Chaicumpa



Prof. Somsong Burusphat



Prof. Pimchai Chaiyen



Prof. Pipop Jirapinyo

National Outstanding Scientist Awardees
Prof. Prasert Auewarakul
Dr. Visith Thongboonkerd

National Researcher Awardees in Chemistry and Pharmacology and in Medical Science, respectively
Prof. Virapong Prachayasittikul
Dr. Visith Thongboonkerd

TRF-CHE Chair Professorship
Prof. Wanpen Chaicumpa

TRF-Senior Research Scholar Award 2010
Prof. Somsong Burusphat

TRF-CHE-Scopus Researcher Award 2010 and Taguchi Prize for Outstanding Research Achievement in Biotechnology 2010
Assoc. Prof. Pimchai Chaiyen

National Innovation Agency Award for Social Contribution 2010
Prof. Pipop Jirapinyo

Research With Community Outreach

At Mahidol University, we work with the aim to increase community participation in all stages of research, foster research relevant to community needs, form and facilitate research network capabilities, and promote uptake of useful research findings in diverse settings. Community and area-based research approaches are employed by the University's researchers as alternatives to traditional population-based research. Such approaches encourage building trusting relationships through bi-directional discussions between

community members and our academic investigators. The research takes place in community settings and involves community members in the design and implementation of research projects.

It is important to note that such research activities should demonstrate respect for the contributions to success which are made by community partners as well as respect for the principle of "doing no harm" to the communities involved.



The following projects have been awarded at the National level in 2010:

Patani Malay-Thai mother tongue based-bilingual education in Southern Thailand.

Project Head: *Prof. Suwilai Premrirat*

A comparison of classifiers in Tai-Kadai languages.

Project Head: *Prof. Somsong Burusphat*

Western region studies project: an integrative study for poverty alleviation.

Project Head: *Assoc. Prof. Anuchat Pongsomlee*

Local health communication.

Project Head: *Assoc. Prof. Duangporn Kamnoonwatana*

Successful Research and Development Achievement

Certain intellectual properties arise from R&D of the University were selected and further developed for commercial value. Licensing technology, business incubation and commercialization are responsible by the Mahidol University Center for Intellectual Property Management (MUCIP). For further information, please see www.ip.mahidol.ac.th.

2010 University Spin-Off Companies

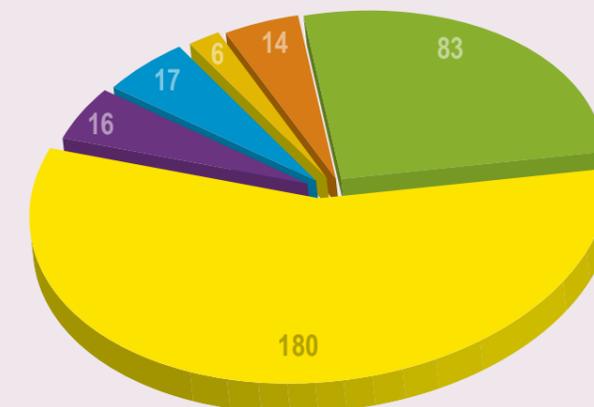


Go Green Co., Ltd.

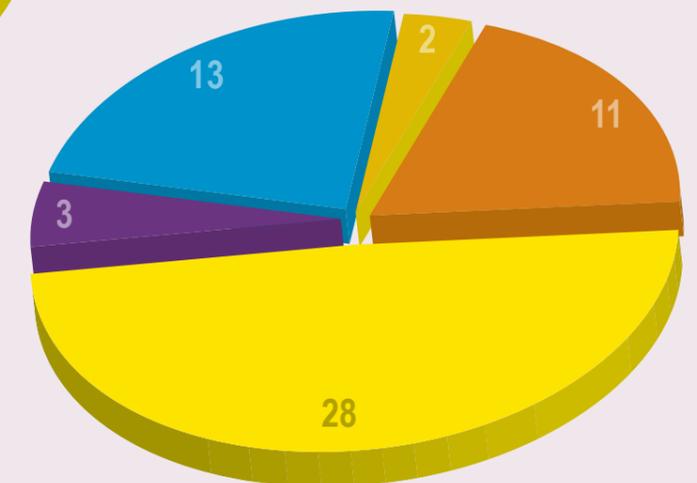


X-Zell Biotec Co., Ltd.

Numbers of Intellectual Properties Registered and Granted



Fiscal Year 1991-2010



Fiscal Year 2010