Thailand will focus on the following areas in biotechnology in the coming years:

- anti-biotech drug production technology improvement
- new vaccine and enzyme reagents investigation including AIDS
- developing active protein and polypepidase for drugs
- new drug target research and development, mainly on tumor therapeutics
- analysing, extracting and fermentation technology improvement on traditional Thailand medicine active components
- microbiology, enzyme technology applied in amino acid industry engineering

Other than the pharmaceutical industry, there are also opportunities for foreign investment, strategic partnerships and relationships in the following areas in Thailand:

- medical devices
- functional foods
- agricultural biotechnology
- food and food manufacturing
- veterinary and farming
- environmental biotechnology
- bioremediation

Thailand government has targeted biotechnology as a priority, along with information and communication technology (ICT). Incentives, development programs, education and training, research and development, and the commercialization of new products, technologies and services are key sectors that attract support from the Thai government.

The Thai government’s strategic plan includes the development in genomics, proteomics and bioinformatics especially in the drug development, agriculture and other medical advances. Thailand government is also encouraging the transfer of intellectual property. It also builds large infrastructure to support the biotechnology.
One of the Thailand government’s key strategies in developing biotechnology has been the development of biotechnology parks with good infrastructure, traffic conditions and environment, and professional and efficient management teams. Biotechnology companies benefit from these high-tech parks in a number of ways: first class infrastructure for research and development, tax reduction, efficient government services, logistic support and warehouse facilities. The parks are also incubators for small and medium size biotech companies.

The commercialization of biotechnology products is playing major roles in Thailand. Various funding schemes are available from the Thailand government. In addition, the flow of the global venture capital and international investment in biotechnology has increased for the Thailand in the past decade.

It is widely expected that Thailand biotechnology will play a significant role in the global agriculture, drug development, clinical trials, genomics, proteomics, bioinformatics, biofermentation and environmental biotechnology in the near future. With Thailand’s rapid economic development, per capita incomes continue to increase, particularly in major urban areas. Better healthcare products and services are an increasing focus for wealthy Thailand citizens. Biotechnology is therefore expected to continue to increase at over 10% per annum for the next five to ten years.

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