

Bio-industry and Bio-clusters in Southeast Asia including Thailand

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Current Status of bio-industry and bio-cluster in the Southeast Asian region will be discussed in the context of the globalization of biotechnology. Each government in the region has proposed and implemented the unique policies for the promotion of R&D in biotechnology and innovation of the field for establishment of bio-industry in the framework of setting-up and development of science/technology parks and incubators forming bio-clusters adopting the concept of "Biotechnology Initiatives." Such movements are based on "Global and Developmental Issues of Biotechnology," which addressed gender, poverty, management of the environment, appreciation of natural resources, development of rural -market economies; start-up companies and ventures, opportunities for employment for self-reliant economic and sustainable development. The issue addressed social awareness and responsibilities, methodology and rationale for creation of new companies, principles and operations of networking and access to networks, adoption and maintenance of a culture of standards and quality, maintenance of visibility and impact on undertaking SME activities in the context of development of especially science/technology. Science park concept has been widely adopted as listed as an example; Kwanghua (China), Singapore Science Park (Singapore), Technology Park (Malaysia), Thailand Science Park (Thailand) in Asia, and others appeared over the world. "Science Park Management Paradigm" in the case of Southeast Asian countries will be studied and discussed in comparison with fore-running ones in Japan and other countries referring "The New Geopolitical Equation in Biotechnology." Another important issue, e-net system development, will be discussed looking at a good and interesting example of the Indian case, which is emerging with strong and unique combination of IT and BT.