Taiwan’s Hsinchu Biomedical Science Park and Kaohsiung Biotechnology Park

Southern Taiwan Science Park (Kaohsiung Biotechnology Park)
As part of the Southern Taiwan Science Park, Kaohsiung Biotechnology Park occupies some 21-acre land in Nanzih District of Kaohsiung City. The park was approved by the Executive Yuan on May 17, 2004 to be established on the 21-acre land owned by the Veterans Affairs Commission of Executive Yuan in Nanzih District of Kaohsiung City. The land is developed and operated by the National Science Council according to the “Act for Establishment and Administration of Science Parks” while listed as one of the sites of the Southern Taiwan Science Park. The Executive Yuan approved the Kaohsiung Biotechnology Park Development Plan, in principle, on January 20, 2005 and determined that the development of the Kaohsiung Biotechnology Park should be initiated based on the private-participation mechanism on February 8, 2007.

Kaohsiung Biotechnology Park, together with the Hsinchu Biomedical Science Park, are part of the vision of building the ultimate biotechnology infrastructure of Taiwan. Systematic development is to complete a third biotech park, the National Biotechnology Park, in order to attract manufacturers of dental and orthopedic equipment, scalpels, and microelectromechanical systems. It is Taiwan’s vision to become a visible player in the global biotech industry.

Government/Private Institutions in Kaohsiung Biotechnology Park
- The Asian Vegetable Research and Development Center
- Taiwan Sugar Research Institute
- Taiwan Livestock Research Institute
- The Incubation Center

Hsinchu Biomedical Science Park
Occupying 38 hectares of land, the Hsinchu Biomedical Science Park is located in the planned development zone of Taiwan High Speed Railway’s Hsinchu station. The location is also close to the Chungshan Freeway, National Freeway 3, and the Taiwan Provincial Railway. As part of Taiwan’s urban development plan, Hsinchu Biomedical Science Park is of close proximity to Hsinchu Science Park’s biotech sector. Together, they would combine to establish Taiwan’s biotechnological development zone.

The plan is to center around a university medical center to integrate medical treatment, research, industry and lifestyle. R&D laboratories will be established for resources that can be shared by the industry, the government, the academic sector and research sectors to engage in medical and biotechnological cooperation.
The park will make efforts to bring together nations, and together alleviate suspicion, facilitate dialogue, build trust, arrive at consensus, and agree on good practice guidelines. It also aims to harmonize the approach toward the application of genomics and biotechnology to solve major problems regionally and worldwide. By collectively making positive policy decisions to capitalize on the potential of genomics/biotechnology, the park would see to help reduce inequities in global health.

**Strategies, Directions, Future Development**

HBSP is devoted to the development of genome research, biotechnology, bio-pharmaceutics, pharmaceutics, tissue engineering, medical treatment, and other biomedical applications. With an aim to become an ideal location for high quality living, leisure, entertainment, and industrial development through the dialog and participation of physicians, scientists, biotechnology experts and other professionals, it will materialize concrete results of the government’s decision to build a strong knowledge-based economy, aid the country’s economic development, enhance national competitiveness, and create a “five-win” result for the government, academic institutions, medical service sector, biotechnology sector, and private enterprises.

In addition, HBSP will build a 500-bed hospital to enhance the medical service quality for the Hsinchu area. The estimated investment is based on the value of fiscal year 2000. The hospital requires an estimated investment of about NT$ 6 billion, and NT$ 4 billion on the Cancer and Proton Therapy Center. If everything goes smoothly, the completion of the HBSP is expected to be around 2008.

**Government/Private Institutions in Hsinchu Biomedical Science Park**

The park has set up research institutions to better achieve its goal as a leading Asian biotech research hub.

They include:
- Medical Center
- Cancer and Proton Therapy Center
- Incubation Center and Joint Research Center
- Information Network Center
- Biotechnology Center
- Industrial R&D Center

**Auxiliary Establishments**

Within its medical center, the National Taiwan University Hospital is established to facilitate university and university hospital collaborations with business and government. The hospital will be a place for research and educational opportunities, and support educational outreach. Part of the hospital’s mission is to expand alternative incubation ideas, and support technology transfer and commercialization of intellectual property arising from the university or hospital’s research. The park is currently seeking foreign investments.

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