

Research on the development model planning of Shanghai Botanical Garden's coexistence of conservation and opening

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Since 2021, China has initiated the development of a national botanical garden system and has established the Beijing National Botanical Garden and the South China National Botanical Garden. The Shanghai Botanical Garden is situated in the central area of Shanghai, which has a population of 25 million, covering an area of 81.6 hectares. It has the dual responsibility of conserving *ex-situ* plants and providing public services to the citizens. Balancing the conflicting functions of "conservation and opening" at the Shanghai Botanical Garden requires conducting research and developing long-term plans. This article analyzes the developmental history, plant protection and research, science popularization services, and other functions of the Shanghai Botanical Garden and highlights the challenges it faces in its development. Combined with the differentiated development of Shanghai Chenshan Botanical Garden and drawing from the world's leading plant development experiences, it proposes the development concept of balancing openness and protection, incorporating tradition with modernity, and combining inheritance and innovation. This serves as a reference for developing botanical gardens in highly urbanized regions.