### 21st Century Frontier Research Program for development of nutraceuticals by using medicinal plants in Korean peninsula.

# Hyouk Joung Plant Diversity Research Project. Director.

#### <Introduction>

#### Background

Plant Diversity Research Center was founded in April 2000 as one of the 21C Frontier Research Program supported by Ministry of Science and Technology of Korean government

#### o Research Period

10 years (July 2000 - June 2010)

#### o Budget

KRW100bil. or USD 100mil (KRW10bil/year or USD 10mil/year)

#### o Objectives of the Project

- · Collection and Utilization of plant resources in the Korean peninsula
- · Development of high value-added products from plant resources
- · Promotion of basic research on plant biotechnology

#### o Contents of the project

- · Publication of the Flora of Korea
- · Development of a plant chemical extract bank
- · Plant genetic data base and bioinformatics

Technology development for wild systematics

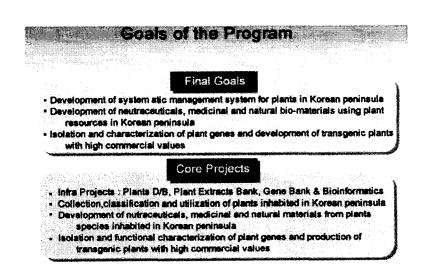
Cultivation technology for wild flowers and trees

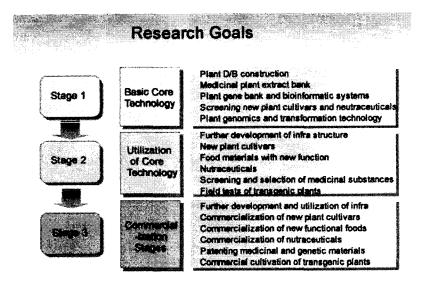
Development of nutraceuticals from plant resources

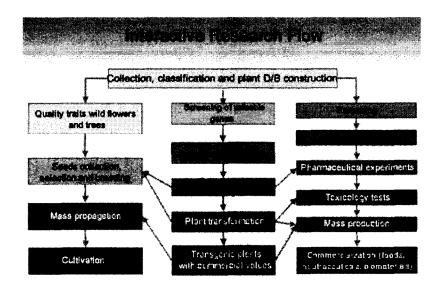
High value-added natural products

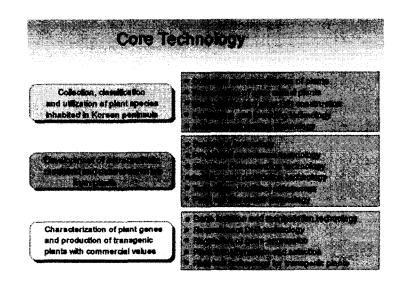
Isolation and utilization or useful genes for secondary metabolism

Development of high value-added transgenic plant









## Expected Products and Commercial Values

Stage 1 (2000 - 2003)	Plant data base Plant extracts bank and screening	Infra structura
	plant game bank & bioinformatics Selection of wild flowers & trees	and Public services
Stage 2 (2003 - 2006)	New plant cultivers (20 species) Functional foods (10)	Candidates of
	Neutrocauticals (10) Medicinal parterials (10)	commercial products
Berlin E	Glens patents (80) New Yestedes of plants (20)	20 billion Workyr
Slege 3 (20000 - 2019)	Punctional foods (10) Neutrocaulicula (10)	100 billion Wonlyr 300 billion Wonlyr
	Medicinal materials (10) Transgenic plants (10)	50 billion Wonlyr 100 billion Wonlyr

