

Bio-Bridge Initiative Pilot Project Convention on Biological Diversity





National Institute of Biological Resources Republic of Korea







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I.	Introduction	Ö ,		L

Division	Contents Transfer of DNA Barcode Analysis for Biodiversity Monitoring				
Titles					
Duration	Sept. ~ Dec. 2016	Budget	\$ 42,735		
Department	Plant and Animal resources division				
Staffs	Total 13 people				
 ➤ 12 trainee from Asia of DNA Barcoding Analysis program from B project of NIBR ➤ Report from the project ➤ Implementation of Strategic plan BD 2011~2020 					

I. Introduction

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- [An Objective and Backgrounds]
- ► Catalyzing and facilitating technical and scientific cooperation(TSC) among Parties to the Convention on Biological Diversity(CBD) and to its Protocols on Cartagena Protocol and Nagoya Protocol.
- ► Convention on Biological Diversity COPX/39 and COPXI/29 recommended sharing taxonomic tools such as DNA barcoding for identification and analysis of threatened species, invasive alien species, and species subject to illegal trafficking etc.

ABT 9 Invasive alien species
ABT12 Reducing risk of extinction
ABT 13 Safeguarding genetic diversity
ABT19 Sharing Information and Knowledge







- Operation Method :
 - Pilot project in 2016, training program of the Workshop
 - * Collaboration with related divisions of NIBR in aspects which are facilities, experts for lectures and training program etc.

< The procedure>

Government employees, experts, and students who investigate biodiversity in Asia region(dispatch e-mail to CBD focal point or related Institution of Parties) \Rightarrow trainee confirmation \Rightarrow financial supporting to participate the program (Sending invitation letters etc.) \Rightarrow the workshop (including Field trips) \Rightarrow Presentation of outcomes of the workshop (side event in CBD cop13) \Rightarrow A final

Convention on

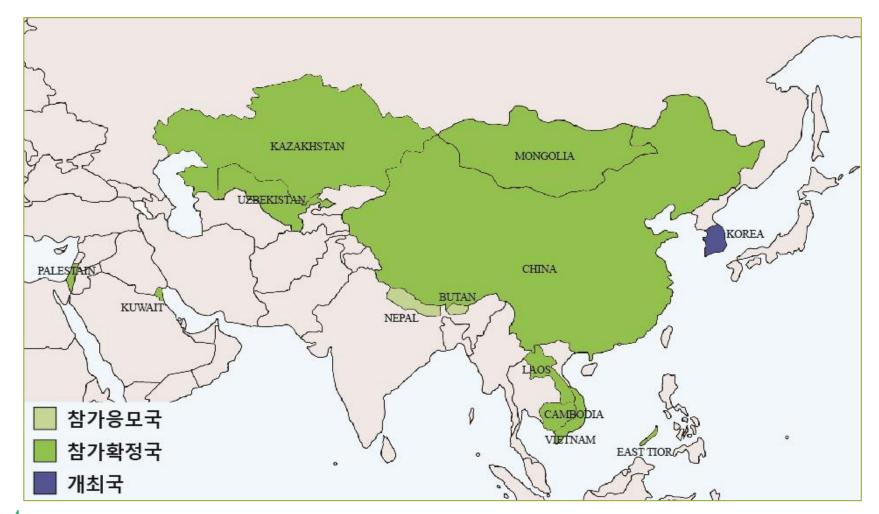


- priorities to participate the workshop
 - ⇒ People recommended by the CBD focal point from their own parties
 - ⇒ People have degree beyond master in Taxonomy, Ecology and Biology, and Subjects related to Biodiversity etc.
 - People who is officials, experts, students related to Biodiversity work (People who were born since 1975)
 - People have experiences which are Capacity Building Program in Global Taxonomy Initiative
 - ⇒ People from East Asia region(동남아시아 > 동북아시아 순서)
 - to consider the mission, vision and mid and long term plan of NIBR
 - ⇒ Parties is expected to collaboration in aspect of utilization of useful and valuable bio-resources in future
 - ⇒ Gender balance





▶ 16 people in 12 countries \Rightarrow 12 people in 8 countries







- Lab experiences and a series of roundtable discussions were hold to draw attention to the potential obstacles in accepting DNA barcoding analysis tools in participating countries
- ► Schedule of the workshop: 14, Nov.(Mon) ~ 25 Nov.(Fri) 12days
- ▶ Dividing into 2 team Plant and Animal Resources Analysis Teams (9:00~18:00/day]





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 - # materials to analysis: CITES speices, Invasive species(illegal trade) and unknown powdery herbal medicines, feces, and hairs without recognizable morphological characteristics
 - # For identifying species which is necessary for:
 - (1) prioritization and management of protected area,
 - (2) agriculture and aquaculture relevant to food security,
 - (3) control and management of invasive alien species,
 - (4) species inventories and monitoring

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Time step.	Date	Activity	Action in detail
1	14(Mon) Nov	- Arrival at the lodge and Registration	
2	15(Tue) Nov	RegistrationOpening ceremony, Lecture(1~3)	Ceremony with President of NIBR
3	16(Wed) Nov	Lecture(4~6)Demonstration of lab works(1 and Discussion	DNA extraction
4	17(Thu) Nov	Demonstration of lab works(2)Discussion	PCR (Polymerase Chain Reaction)
5	18(Fri) Nov	Experiments (participants in person)Discussion	DNA extraction, PCR
6,7	19(Sat], 20(Sun) Nov	- Field trips (other institute related to Biodiversity)	
8	21(Mon) Nov	Lecture(7~9)Experiments and Discussion	Assembling of sequences
9	22(Tue) Nov	- Field trip (visiting Amore-Pacific)	
10	23(Wed) Nov	Lecture(10~12)Experiments and Discussion	Alignment of sequences, Making NJ tree and Analysis
11	24(Thu) Nov	Experiments and Round table discussionSurvey for participants	Questionnaire survey, Ceremony with President of NIBR
12	25(Fri) Nov	Closing ceremonyDeparture to each country	











Biological Diversity

III. Outcomes



▶ 12 good trainee and friends in 8 countries

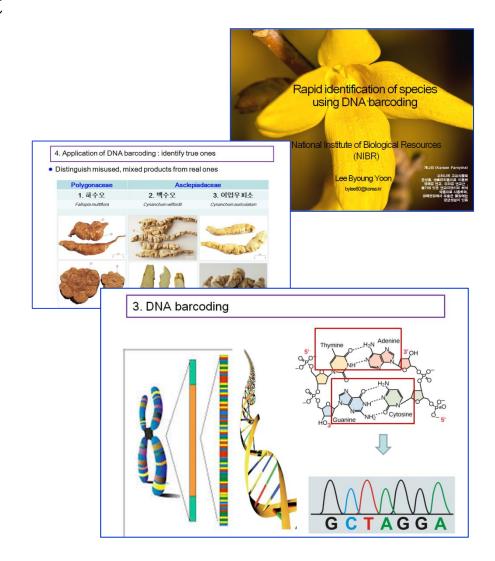


III. Outcomes



Preparation the final report







Outcomes and expected effects



- Contribution to Implementation of Strategic Plan for Biodiversity 2011-2020 and Achievement of Achi Target in Asia
 - → to enhance synergies among the biodiversity and related convention or its protocols
- ► Many developing countries are able to monitor and management of their biodiversity
 - → easier than before condition without the capacity to identify species of interests and unknown species
 - → to support enhancing capacity building of parties which have high(mega) biodiversity
- ▶ narrow the gap between developing countries and developed countries in scientific and technical aspect



IV. The consideration of our work



- **▶** The number of parties for participating the program
- ► Members who have different background
- **▶** Periods of the training program
- **▶** Needs of each parties (their condition and situation)
 - → materials which will be analyzed the training program
- ► Mid and long term plan (outcomes from the program)



Catalyzing, facilitating and transfering technical and scientific cooperation(TSC) among Parties on CBD and to its Protocols





Thank you very much



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