

## Wild plant species, an important alliance in against future challenges

Nguyen Van Kien<sup>1\*</sup>;

Tran Thi Thu Hoai<sup>1</sup>, Vu Dang Toan<sup>1</sup>

<sup>1</sup>: Plant Resources Center (PRC), Hanoi, Vietnam

\*: Corresponding email: [kiennguyenvan8@hotmail.com](mailto:kiennguyenvan8@hotmail.com);

[kiennguyenvan8@gmail.com](mailto:kiennguyenvan8@gmail.com)



Apples

Apricots

Cucumbers

Eggplants

### Foreword

Grapefruit

Lettuce

Lemons & limes

Melons

Oranges

Peaches

Pears

Plums

Rice

Soybean

Sugarcane

Taro

Tea

Yams

Bananas

Mangoes

Ginger

Sesame

Clover

Lentils

Bio-culture and bio-economy could be a initial of green economy Although 50 % global GDP is originated from nature and 80% global foods is from crops but global challenges of sustainable food system is a foresight thing. Zoom increase of crop in traits of yield, quality and resistance/tolerance is so needed as increasingly natural resources shortage and exhaustion in line with out-breaking of pest and disease and impact of climate change. Together advance science and technology, crop wild relatives is considered as a key to unlock door in discovering and releasing hidden potentials of crops. Previously, almost crop wild relatives (CWRs) are known as bush one, used in traditional medicinal practices/ornamental, edible one. PRC is hosting a series of collecting expedition on crop wild relatives in 08 agro-ecological regions of Vietnam in cooperation with international partners and participating in several pre-breeding programs related to CWRs evaluation..

### Results and discussion

*Wild species of crops (cereals, legumes, root/tuber and banana, and fruit and vegetable) in origin of East/South and Southeast Asian are discovered by PRC teams.*



Picture of *Malus doumeri* population in Bidoup Nui Ba

Nomenclature of collected samples are

done and published but many of them are still bottleneck

Wild species of amaranth, blueberry, strawberry, rubus, etc are collected and preserved at Vietnam National Plant Genebank and partners.

**Conclusion:** This material is importantly contributed into food security, nutrition and health. Cooperation on evaluation and use of this material is welcome at PRC

**Acknowledgement:** In collaboration with colleagues and funding of partners

1. Collaboration exploration on plant genetic resources 2014-2020;
2. Collecting expeditions on Malus species 2018-2019;
3. Collecting expeditions on Strawberry, Rubus, blueberry species 2014-2017
4. Collecting expedition on banana, legume, 2014-2016

### Map on 8 agro-ecological regions of Vietnam



### Collecting wild rice

