Welcome to Europe

欢迎您来到欧洲

Καλώς ήρθατε στην Ευρώπη

"EU-CHINA Joint Experts' seminar"

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Brussels

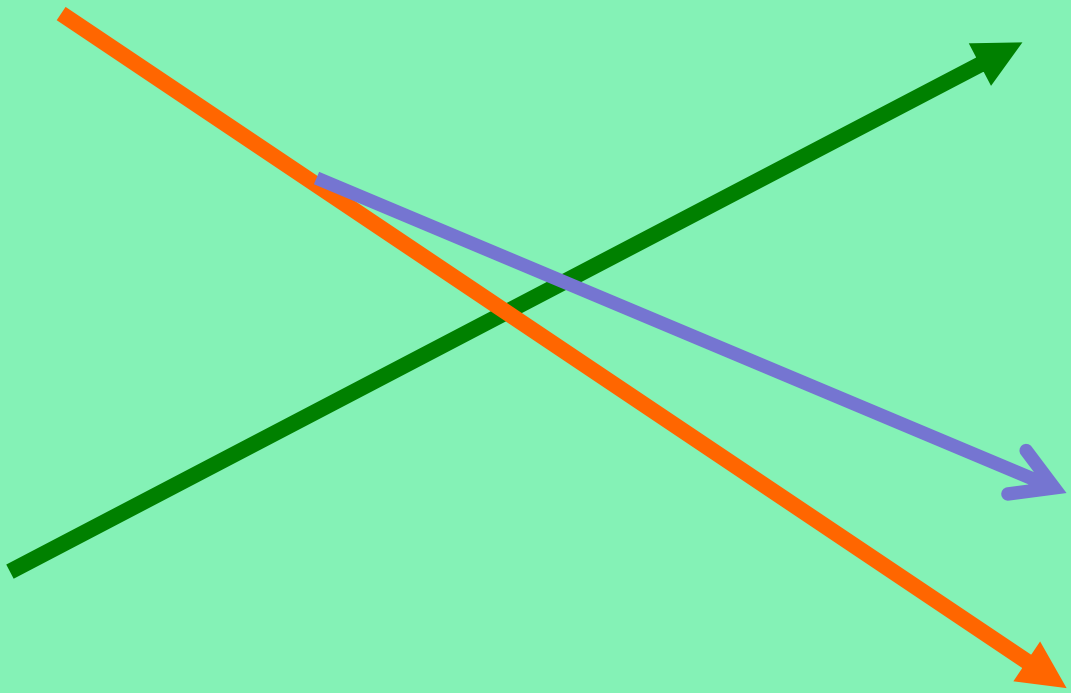
Management of genetic resources and pre-breeding

Ricos Thanopoulos and Penelope Bebeli

Agricultural University of Athens

Greece

From 19th century two trends:



Intensification of agriculture

Genetic erosion

Wild Crop Relatives

Landraces

We need to halt genetic erosion through:

-retaining landraces
in cultivation (on farm) + collecting

-conserving hot spots of Crop Wild Relatives (CWR)

in cooperation with local communities

Pre-breeding

- Characterization in situ
- Evaluation also in situ conditions
- Quality traits
- Crop Wild Relatives
- Wild harvested plants for food, underutilized and neglected crops

Local communities to realise:

- the genetic, cultural and economic value of landraces
- CWR value (research, education, tourism)
- To participate in breeding
- To make profit from them (Farmers' Rights)
- Climate change: ZERO MILE DISTANCE

Research Goals

1. Collecting expeditions for landraces and CWR – Role of Gene banks

1.a Establishment of “on farm” schemes

1.b Selection-management of CWR hot spots

2. Characterization, evaluation, pre+breeding

3. Development of integrated systems of landraces’ utilization

From farmer to consumer

Thank you

Ευχαριστούμε