Protection and inheritance of ancient native seeds by Chinese organic rice farmers

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(1) Report summary

1.1 History of Chinese rice

1. History of 6500 years
2. 30000+ traditional seeds
3. Quality organic food
4. Wild rice's environment
   And organic rice farming techniques
1.2 Wild resources  Organic Zhefang Tribute Rice ( Yunnan )
(1) Report summary

1.2 Wild resources

2 Organic Xili Tribute Rice, Xianghe Sticky Rice (Guizhou)
(1) Report summary

1.2 Wild resources

Yanzhi Rice (North), Gu Rice (Jilin)

Discovered in Meihekou, Jilin Province
(1) Report summary

1.2 Wild resources

Wild rice grown in Yunkai Ranges

Cutting tools made from mussels, unearthed in Luoding
(1) Report summary

1.2 Wild resources

Colored Rice

Colored rice builds rice "dreamworld"
( II ) Protection and utilization

2.1 Resource discovery and classification

Collected by regions of China by members of China Innovation and Development Alliance for Standardized Production Organic Rice

1 By location

Northeast: (Gu Rice)

North: (Yanzhi Rice)

Southwest: Yunnan, Guizhou, Sichuan

(Organic Zhefang, Xili, Xianghe Rice)

South: Guangxi, Guangdong

(Organic indica)
(II) Protection and utilization

2.1 Resource discovery and classification

2 Research Center for Medicinal Plant Resources, Tsukuba

Testing wild resources

Medicinal/edible Nutrition Palatability Other
(III) Domestication of resources

3.1 Establish organic wild resources stocks
3.2 Domestication method

Wild → Tall → Short → Lodging → near-cultivar → Organic seeds
(IV) Create new resources for organic rice

Using molecular markers to create quality wild variety groups and other quality resources—new resources for organic rice
( V ) Organic rice ecological trials in China

- **SW**: Yunnan
- **South**: Guangxi
- **NW**: Ningxia
- **North**: Tianjin
- **East**: Jiangsu
- **NE**: Jilin, Inner Mongolia
(VI) Establish a seed breeding base for wild organic rice resources

Protect and utilize wild rice resources
( VII ) Development and application of ancient organic rice resources
Conclusion

Through above approaches, Chinese organic farmers will take the preservation and inheritance of ancient native seeds to a new sustainable stage.
Thanks!

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