



**10<sup>th</sup> Sino-German Agricultural Week**

**Success stories from China**

**Agrobiodiversity for a Resilient Food System**

**农业生物多样性促进有韧性的粮食系统**

王泽恩 Wang Ze'en

食通社 Foodthink

2024.10.23

# About Foodthink 关于食通社

食通社是一个可持续食物和农业的知识、信息和写作社区，由一群长期从事农业和食物实践及研究的伙伴们共同发起和管理。食通社由2010年成立的北京有机农夫市集孵化，十多年来，团队成员参与了全国多个可持续食农组织的建立、网络搭建、行业研究和支持等项目。

- 原创内容 Narrative Building
- 社群建设 Public Advocacy
- 行业支持 Capacity Building
- 政策研究和倡导 Research & Advocacy



# Agrobiodiversity for a Resilient Food System

*Resiliency is the capacity over time to provide sufficient, appropriate, and acceptable food to all. (Tendall et al.)*

- The Conservation and Use of *Red Bald Wheat*  
“红光头”老品种小麦的保护和利用
- Agrobiodiversity Conservation for Agroecology Practices  
保种育种促进农业生态学



# The story of *Red Bald Wheat* “红秃头”老品种小麦的故事



甘肃省古浪县  
Gulang County, Gansu Province

返乡青年尹发华  
Returnee Mr. YIN Fahua

200亩生态种植杂粮基地  
200 mu of Red Bald Wheat



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# Climate Resilience and Nutrition security

## 气候韧性与营养



干旱少雨的内陆性气候

Precipitation < 400mm

耐旱的“红秃头”

Drought resistance

产量低但口感好，利于加工

Low yielding but nutritious



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KNOW YOUR FOOD



# Safeguarding food access and availability during pandemic

## 疫情期间保障食物供应



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# 石头城参与式选育种团队的故事 The Story of Stone Village



2013年开始农家种在地保护

In-situ agrobiodiversity  
conservation since 2013

保育294个地方及农家品种

Conserving 294 crop varieties



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# Reduce environmentally damaging inputs 化肥农药减量



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# Home Gardens and Food Sovereignty

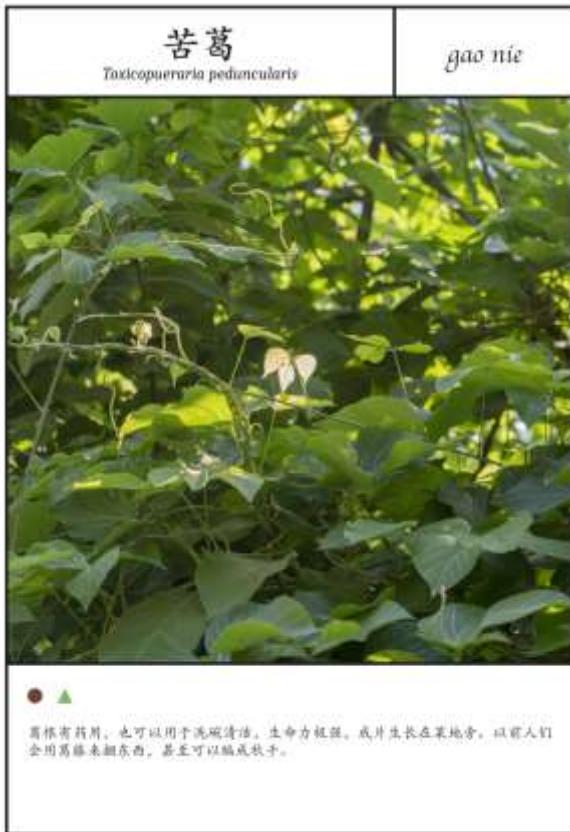
## 家庭小菜园保障食物主权



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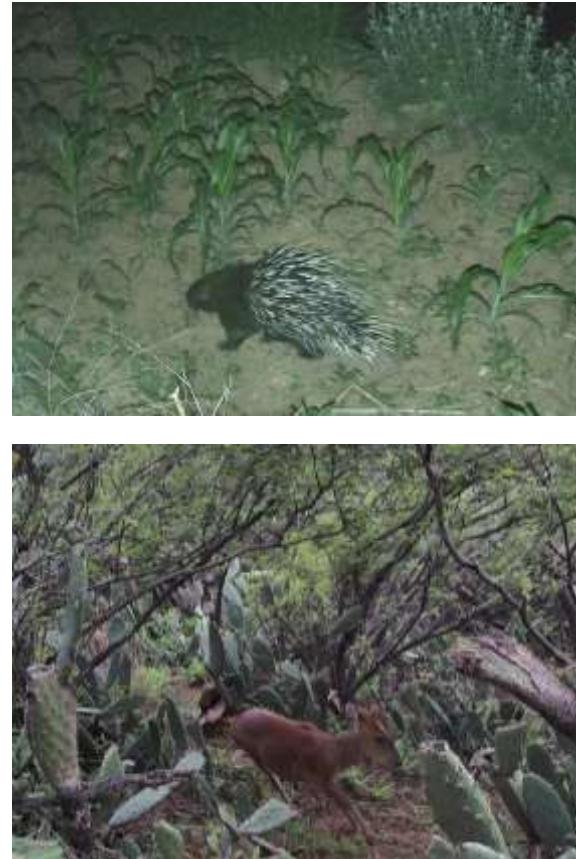
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# Ecosystem Restoration 生态系统修复



野生植物的复兴

Rewilding



野生动物与农田共存  
Co-existence of wildlife and farmland

●  

农业  
Agriculture

石山石头城纳山地生态文化村耕莘纳社区保护地  
Stone Village: Mountain Ecosystem  
Bio-culture Community Conserved Area

云南富民石山头城保留着相对完整的冷热山地农耕  
生态系统，以及与当地生态文化相融合的农业生  
物多样性。2013 年开始在农园种子网络的支持下，  
石头城村通过地方品种引进、建立社区种子银行  
等举措动员社区共保育作物品种 294 个，提高了  
作物遗传资源多样性及气候变化韧性。保护工  
作还推动了社区赋权和妇女参与。

Stone Village of Yunnan Province has maintained  
a traditional mountainous agricultural ecosystem  
and integrated agricultural biodiversity with local  
ecological culture. Since 2013, with the Farmers'  
Seed Network's support, Stone Village leads the  
surrounding community to jointly conserve 294  
crop varieties through participatory variety selection  
and breeding, and community seed banks, which  
has enhanced agricultural genetic diversity  
and climate resilience. These initiatives have also  
empowered the community, especially women,  
and strengthened community governance.

申报告位 Case submitter:  
南宁市组织以热助冷中心（农园种子网络）  
Farmers' Seed Network  
云南昆明市富民县石山乡石山村  
Stone Village  
面积 Area: 4735 ha  
保护管理开始年份 Start year: 2013



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# More success stories @ Harvest Issue #5



The best way to  
conserve old varieties  
is to keep planting  
them.

CHEN Ziyu, farmer

Efficient in-situ agrobiodiversity conservation is essential in agrobiodiversity conservation. Despite the rapid expansion of hybrid varieties, thousands of landrace and "old" varieties are spontaneously preserved by China's smallholders on small-scale family farms. Organizations like Farmers' Seed Network (FSN) and Beijing Farmers' Market (BFM) strengthen existing intersectoral partnerships by linking farmers' communities and bringing diverse food products to organic consumers. The case of in-situ conservation in Wuciyuan Organic Farm exemplifies such collaborative efforts.

Located in Hubei Province, Wuciyuan Organic Farm was established in 2011 by a young farmer, Chen Ziyu. For Chen's family, access to diverse seeds from landraces and "old" crop varieties is equally important as organic farming to ensure food's natural taste. The family have collected more than 70 "old" varieties from farmers, researchers, and

The community seed bank was also officially established by the local government as an impetus of the FSN farmer seed network. Thousands of farmers from nearby regions exchange their "old" crop varieties at Chen's community seed bank and social media.

The "Little House" big bank

FSN further raised consumers' awareness of agrobiodiversity conservation. In collaboration with the agricultural extension center, the "old" crop varieties were promoted to farmers' markets, where the agricultural extension center organized a series of promotional activities. In 2012, the first "old" crop varieties exhibition was held in Beijing, featuring over 100 different varieties of traditional Chinese crops.

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SPECIAL ISSUE

The Sino-German Agrobiodiversity Network

DCZ 中德农业中心  
Deutsch-Chinesisches AGRARZENTRUM

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