

Botanical Studies for Oriental Medicine

2006-2009

Presented by:

**High Falls
Foundation, Inc.**




Image: *Trichosanthes kirilowii* Maxim.,
source of 瓜蒌 guā lóu and tiān huā fěn 天花粉



THANK YOU, CCAOM!

The endorsement of the Council of Colleges of Acupuncture & Oriental Medicine in 2005 helped us win co-funding from the W.K. Kellogg Fndn.

*This is an illustrated report
on program achievements.*

Gynostemma pentapylum (Thunb.)
绞股蓝 jiǎo gǔ lán



*Photos show examples to
represent the program;
however, this record
is not exhaustive.*

***Impatiens balsamina* L. (凤仙 fèng xiān)**

Purpose of Program

- ✓ Provide access for all U.S. Oriental medicine students to living plants of their materia medica
- ✓ Form alliances among OM colleges, universities, extension, herb growers, botanical gardens
- ✓ Train specialized botany teachers
- ✓ Develop curriculum and materials

Purpose of Program

Students and practitioners must understand the basics of ecology, herb production and conservation issues to guarantee future access to high quality herbs.



From 15 originally designated teaching sites...

- 18 colleges worked on improving their garden programs
- 7 additional colleges participated by hosting events
- Overall, approx. 50% participation

Good use of good sites



Bastyr University, Kenmore WA

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Planting Day, June 2007

Finger Lakes School of A&OM, Seneca Falls NY

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Daoist Traditions, Asheville NC

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Successful adaptations of tricky sites

**American College
of Traditional
Chinese Medicine
San Francisco**



Southwest Acupuncture College, Boulder

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The Learning Garden Venice CA



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Utilization of community garden sites
Colorado School of TCM, Denver CO

\$34,000 in program stipends awarded to 18 active garden sites

- By the end of 2009, these grants stimulated over \$200K in additional, local grants.
- Improved garden programs will continue to attract resources from local communities.
- More gardens are being planted as a result of these successes.

The minimalist approach



PCOM Chicago's "garden"



**National College of Natural Medicine
Portland, Oregon**

Successful collaborations



**Academy of Oriental Medicine at Austin
and American Botanical Council**



University of Washington Medicinal Plant Garden
and Seattle Institute of Oriental Medicine



Arnold Arboretum of Harvard University
and New England School of Acupuncture

Lilium tigrinum (source of 百合bǎi hé)



Also:

**Jim & Peggy Duke's
Green Pharmacy Garden
and Tai Sophia (now
Maryland University of
Integrative Health),
Laurel, Maryland**

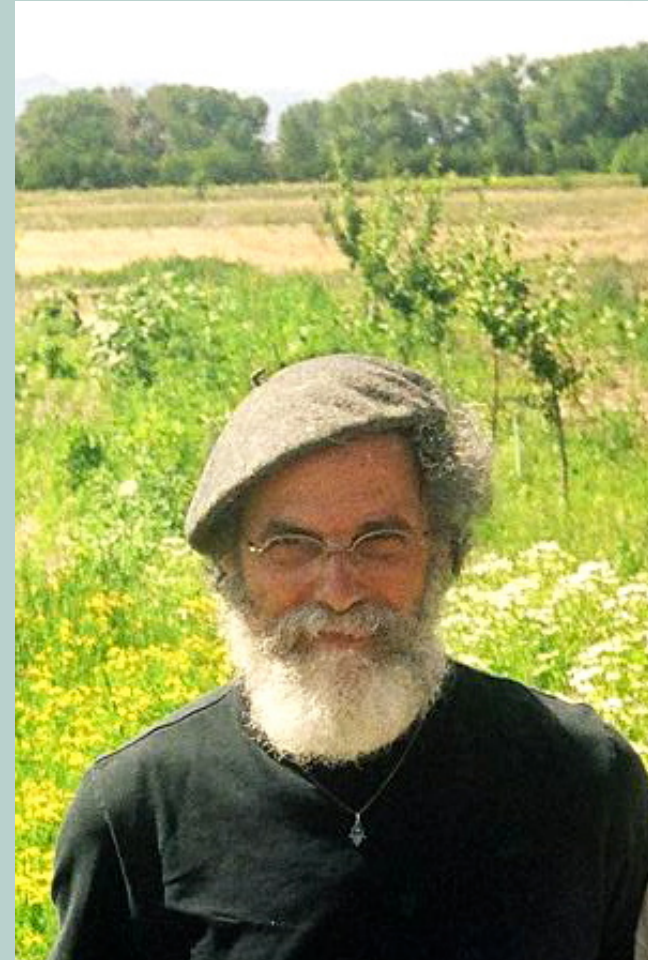
At least 7 botany teachers are active in the program

- More are being recruited.
- (PLEASE offer your suggestions!)
- Training programs for teachers is high priority for the future.



Robert Newman, L.Ac., MSTCM

Z'ev Rosenberg, L.Ac., MSOM





Joe Hollis, Mountain Gardens

Peggy Schafer
Chinese Medicinal Herb Farm



More than 600 separate garden-related events recorded

- Student exposure to the plants, though brief, can inspire a career-long path of learning.
- It's possible to work around the strictures of the intense masters curriculum.
- Farm internships have proved effective.



High Falls Gardens Student Internship, August 2007



Peggy Schafer's
Chinese Medicinal Herb Farm
Petaluma CA





More program achievements

- Development of a Quantitative Descriptive Sensory Analysis protocol
- A practical manual for *Pao Zhi* teaching
- A prototype tour guide for botanical garden collections of Chinese herbs

Epimedium sagittatum (Sieb. & Zucc.) Maxim.,
source of 淫羊藿 yín yáng huò

Quantitative Descriptive Sensory Analysis

Dr. Craig Hassel, University of Minnesota

- A protocol for organoleptic evaluation of food products
- Used in the food industry since 1970s
- Samples are compared to a standard
- Graduate students are used as tasters
- A lexicon is established for each case
- This method produces replicable results

Pao Zhi Manual



Alliances with growers and scientists are moving forward

- Quality standards for production are a focus of attention.
- Task forces involving growers, practitioners and scientists are working at the regional level.

April 2009



Asian Medicinal Plant Grower Training
Sponsored by New Mexico State University
Sustainable Agriculture Science Center, Alcalde



Land-grant universities involved

*in Chinese medicinal botanicals
production research*

- University of Massachusetts at Amherst
- North Carolina State University
- Mississippi State University
- New Mexico State University
- University of Minnesota
- Oregon State University

Inula helenium L. (source of 土木香 tǔ mù xiāng)

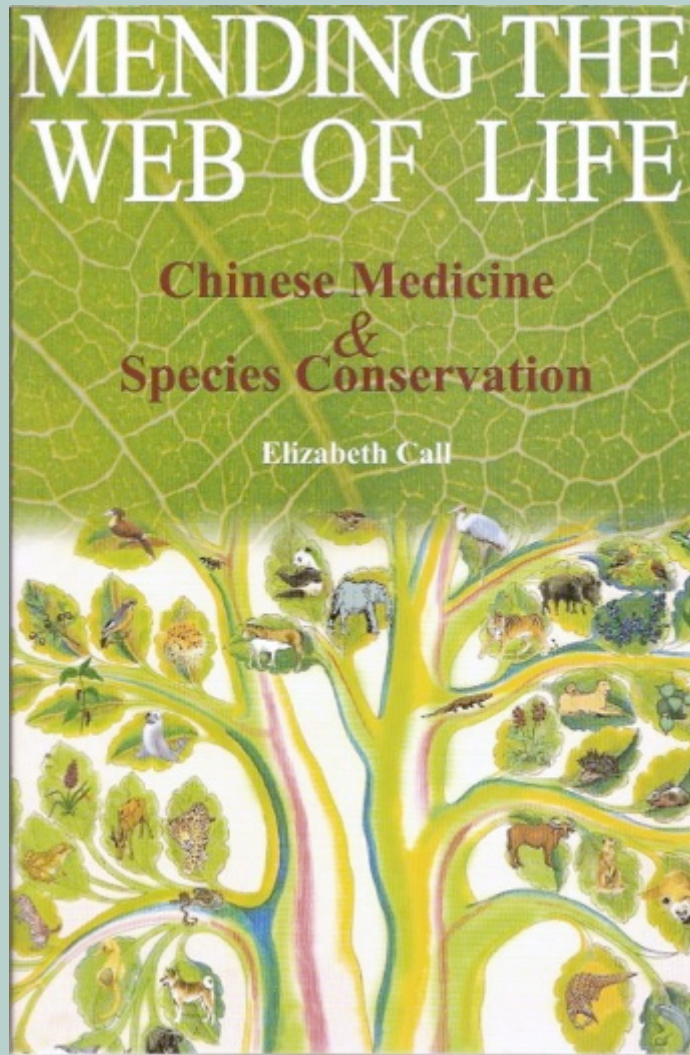


The Botanical Studies
Program continues!

***Helianthus annuus* L. (source of xiàng rì kuí zǐ)**



***Today's students will protect
the treasure of our medicine.***



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