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### Research Interests

— Resource protection of medical plants and molecular authentication of medical plants

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#### Research platform







Chemical analysis instruments



Molecular identify



Microscopy instruments

#### Research program

Host the fourth national survey in Inner Mongolia materia medica resources.



#### Some medicinal plant photographs in Inner Mongolia survey



Ricker



Inula salsoloides (Turcz.) Ostenf.



Lilium concolior Salisb.



Polygonum viviparum L



Eritrichium rupestre (Pall.) Bunge



Aconitum barbatum var. puberulum Ledeb.



Cymbaria mongolica Maxim



Trollius chinensis Bge.



Scorzonera glabra Rupr.



Aquilegia viridiflora Pall.



Orobanche caerulescens Steph.



Cynomorium songaricum Rupr.

# Some medicinal plant photographs in Inner Mongolia survey

Dracocephalum rupestre Hance

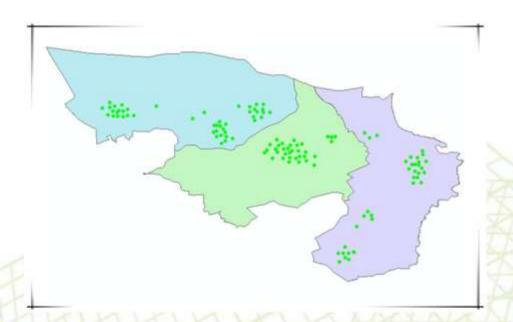
Sanguisorba officinalis L.



Hedysarum polybotrys Hand.-Mazz

Caragana microphylla Lam.

## Research on the multi-factor comprehensive regionalization of *Cistanche deserticola* in Alxa League.

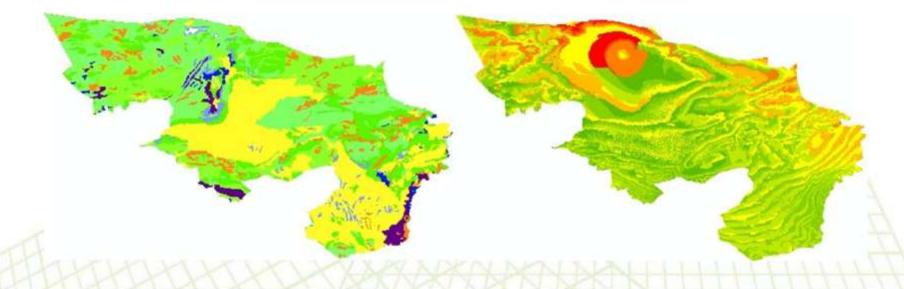


The sampling sites map of Cistanche deserticola in Alxa league



Cistanche deserticola
photographed from our field
investigation

## Research foundation using remote sensing to monitor ecological factors of *C. deserticola*



The remote sensing image of sand content of soil from Alxa league in 2013

The remote sensing image of soila vailable water capacity from Alxa league in 2013

#### Resource protection base of Monglolia medicine



Astragalus membranaceus

Astragalus membranaceus

#### Resource protection base of Monglolia medicine



Lycium barbarum L.

Carthamus tinctorius L.

15 'Digeda' medicinal plants and 29 'Digeda' prescriptions were investigated.

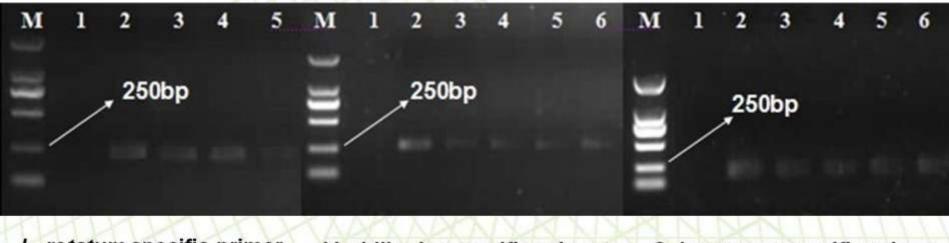


Molecular authentication of ten kinds of 'Digeda' Mongolian medicine

Sample ID	Sample Name	Collection	Packet Ingredients
MPM01	Digeda-3 Tang	Hulun Buir	Unlabeled
MPM02	Digeda-4 Tang	Alxa League	Unlabeled
MPM03	Digeda-8 San	Alxa League	Unlabeled
MPM04	Digeda-4 San	Xilingol League	Unlabeled
MPM05	Li Dan-8 San	Tongliao	Corydalis Bungeanae Herba
MPM06	Digeda-4 Tang	Tongliao	Lomatognii Herba
MPM07	E Ri He Mu-8	Hulun Buir	Violae Herba
MPM08	Gu Ri Gu Mu Chao Ke Dun	Hulun Buir	Corydalis Bungeanae Herba
MPM09	Yi He Ha Ri-12	Hulun Buir	Corydalis Bungeanae Herba
MPM10	A Ga Ri-35	Hulun Buir	Violae Herba

#### Molecular authentication of ten kinds of 'Digeda' Mongolian medicine

10 'Digeda' MPM samples containing *Lomatogonium rotatu m*, *Viola philippica* or *Corydalis bungeana* as raw materials were successfully evidenced by PCR with specific bands.

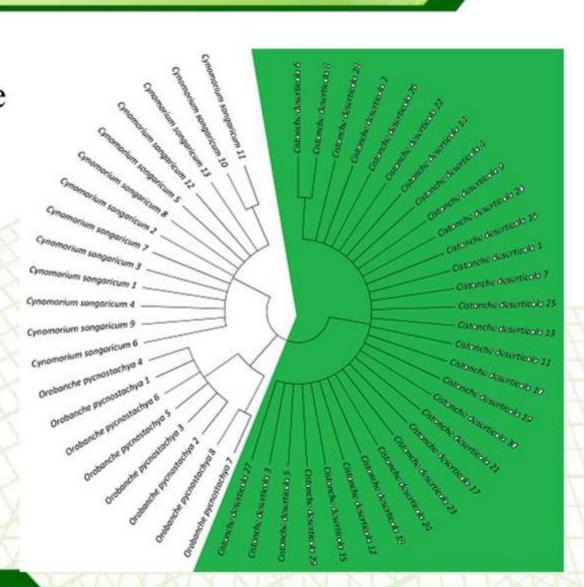


L. rotatum specific primer amplification products

V. philippica specific primer amplification products

C. bungeana specific primer amplification products

NJ Syetematic tree based on ITS sequences of Cistanches Herba and its adulterants



#### **Future Plan**

- Germplasm resources protection, cultivar improvement, and sustainable use of Mongolia medical plants.
- Further investigation and research in traditional Mongolian medicines to improve herbal medicine availability and ensure the safe medication.
- Study and application of DNA fingerprint analysis, DNA identification and DNA barcoding in medical plants.



#### Conference

- 6<sup>th</sup> World Congress on Biotechnology November 30-December 02, 2015 HICC-Hyderabad, India
- www.biotechnologycongress.com

#### **Future Plan**

# Welcome to Inner Mongolia, China!

Welcome to join us!