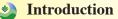
The Relative Commercial Potential Capsella bursa-pastoris L. Medic (Shepherd's Purse) **Ecotypes As Fresh And Processed Products**

Meredith Johnston¹, Fiona Lamotte², and Pietro Iannetta^{3,*}

¹Blairgowrie High School, ² Managing Director, Scotherbs Ltd, ^{3,*} Molecular Ecologist, SCRI







The common weed *Capsella* has long been recognised for its medicinal potential

However, it is not used widely in so-called 'developed' Western market places

There are many within-species variants of *Capsella* (ecotypes)

We assessed the differences in growth and taste between six different leaf shape forms

Germination and growth

The seeds were sown into compost filled pots,

Three pots per were placed in a NFT system (see poster Hale et al.)

Leaf Shape at maturity (pre flowering)

ature leaves of each ecotype were assessed (see figure below)



Leaf Size at maturity

The most productive ecotypes should be selected

Rosette diameter, leaf numbers and biomass were measured

Ecotype	Rosette Diameter (cm)	Leaf Number	Total Biomass (g)
367.546	30.4	16.4	6.65
474.456	29.9	23	7.21
798.188	24.49	16.55	2.94
799.452	35.2	19.5	8.83
930.162	31.61	34.2	6.5
937.71	27	18	4.95

Taste as a salad and a soup

Scores are out of 10 - high numbers = good flavour

Ecotype Pleasant Taste Texture Appearanc Overall e/10367.546 Yes Bland/bitter Rough 3 2 474.456 Mild/bitter Yes Rough Very hairy 798.188 Yes Sweet 8 4 799.452 Yes Sweet Fine hairs/smooth 5 930.162 Yes Bitter 2 Slightly hairy 937.71 Bland Very hairy 4

In blind taste-tests, professional chefs thought the *Capsella* soup was arparagus and offered Capsella soup as an SCRI 'special dish'.



Summary

- Ecotype 799.452 has most biomass due to longer (not most) leaves
- Ecotype 799.452 (leaf shape 7) was also tasted pleasant taste and reasonable smooth texture
- The most promising Capsella ecotypes have been named in SCRIs Capsella 'Heart' series
- These are 'Mother's Heart' (accession 799), and 'Shepherd's Heart' (accession 930)





