



Canadian Food  
Inspection Agency

Agence canadienne  
d'inspection des aliments

# Virtual Seed ID Referee 2018 *Linaria* spp. and *Solanum* spp. Workshop for CSAAC May 30<sup>th</sup> 2018

Seed Science and Technology Section  
CFIA Saskatoon Laboratory



Canada

# Species in the 2018 referee

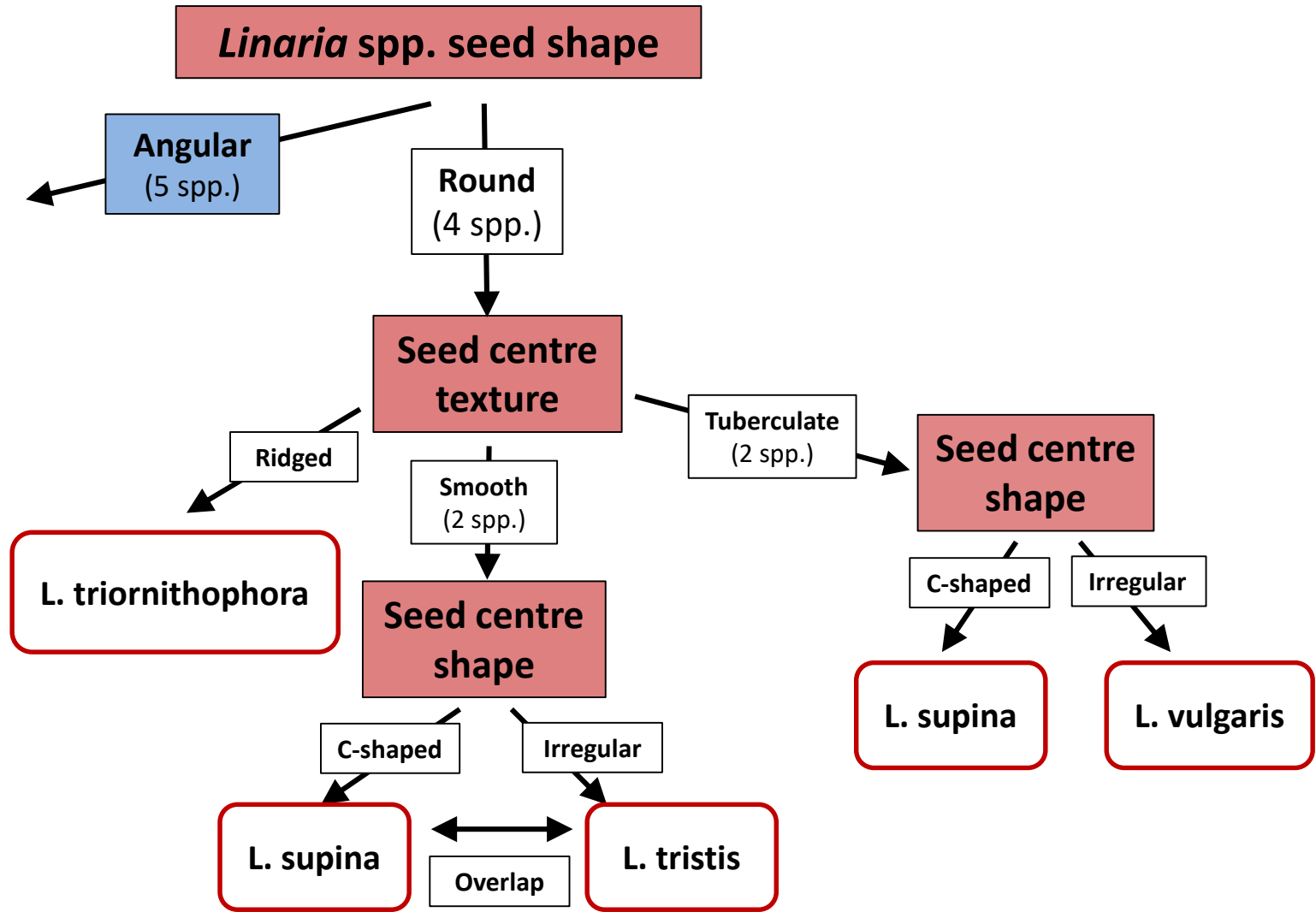
## 9 *Linaria* species:

1. *Linaria tristis*
2. *Linaria vulgaris*
3. *Linaria supina*
4. *Linaria triornithophora*
5. *Linaria dalmatica*
6. *Linaria genistifolia*
7. *Linaria maroccana*
8. *Linaria purpurea*
9. *Linaria repens*

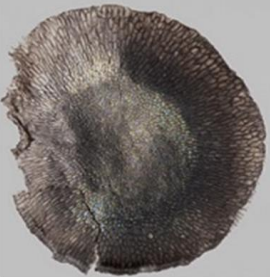



## 10 *Solanum* species:

1. *Solanum americanum*
2. *Solanum carolinense*
3. *Solanum elaeagnifolium*
4. *Solanum physalifolium*
5. *Solanum ptychanthum*
6. *Solanum nigrum*
7. *Solanum rostratum*
8. *Solanum torvum*
9. *Solanum triflorum*
10. *Solanum viarum*

# Dividing *Linaria* spp. using seed features

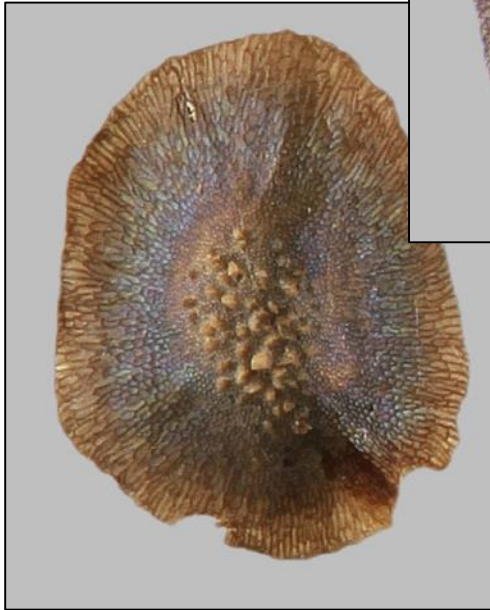


# Seed features of round *Linaria* spp.

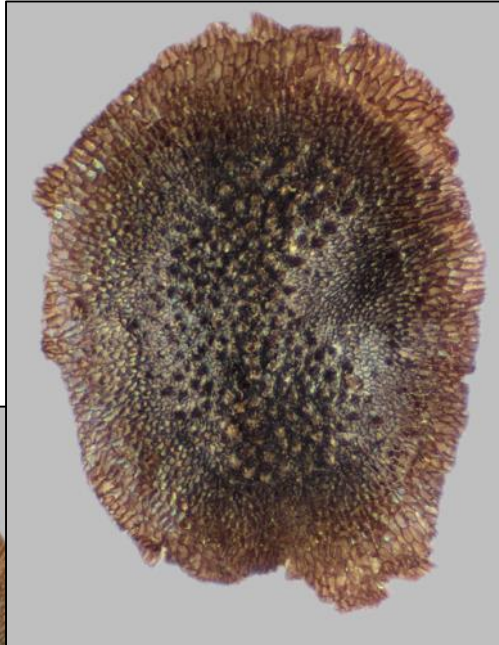
Feature/ Species	#1 <i>L. tristis</i> (melancholy toadflax)	#3 <i>L. supina</i> (prostrate toadflax)	#4 <i>Linaria triornithophora</i> (3 birds flying)	#2 <i>L. vulgaris</i> (yellow toadflax)
Tuberculate centre		✓		✓
Smooth centre	✓	✓		
Ridged centre			✓	
Oval-shaped centre	✓			✓
C-shaped centre	✓	✓		
Image				



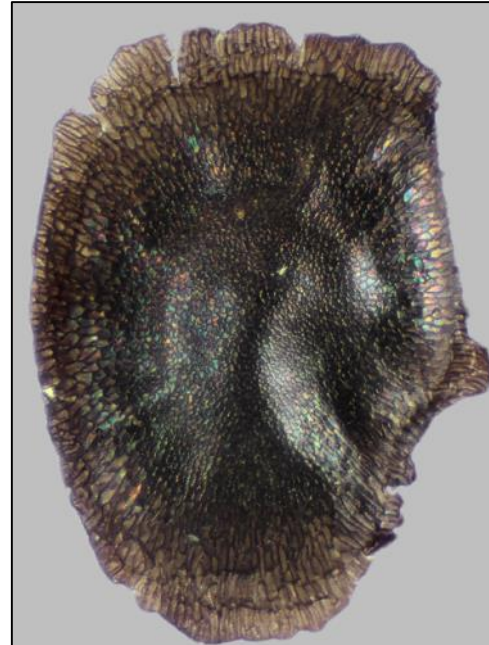
# Seed features of round *Linaria* spp.



***Linaria vulgaris***  
**(yellow toadflax)**



***Linaria supina***  
**(prostrate toadflax)**  
tuberculate form

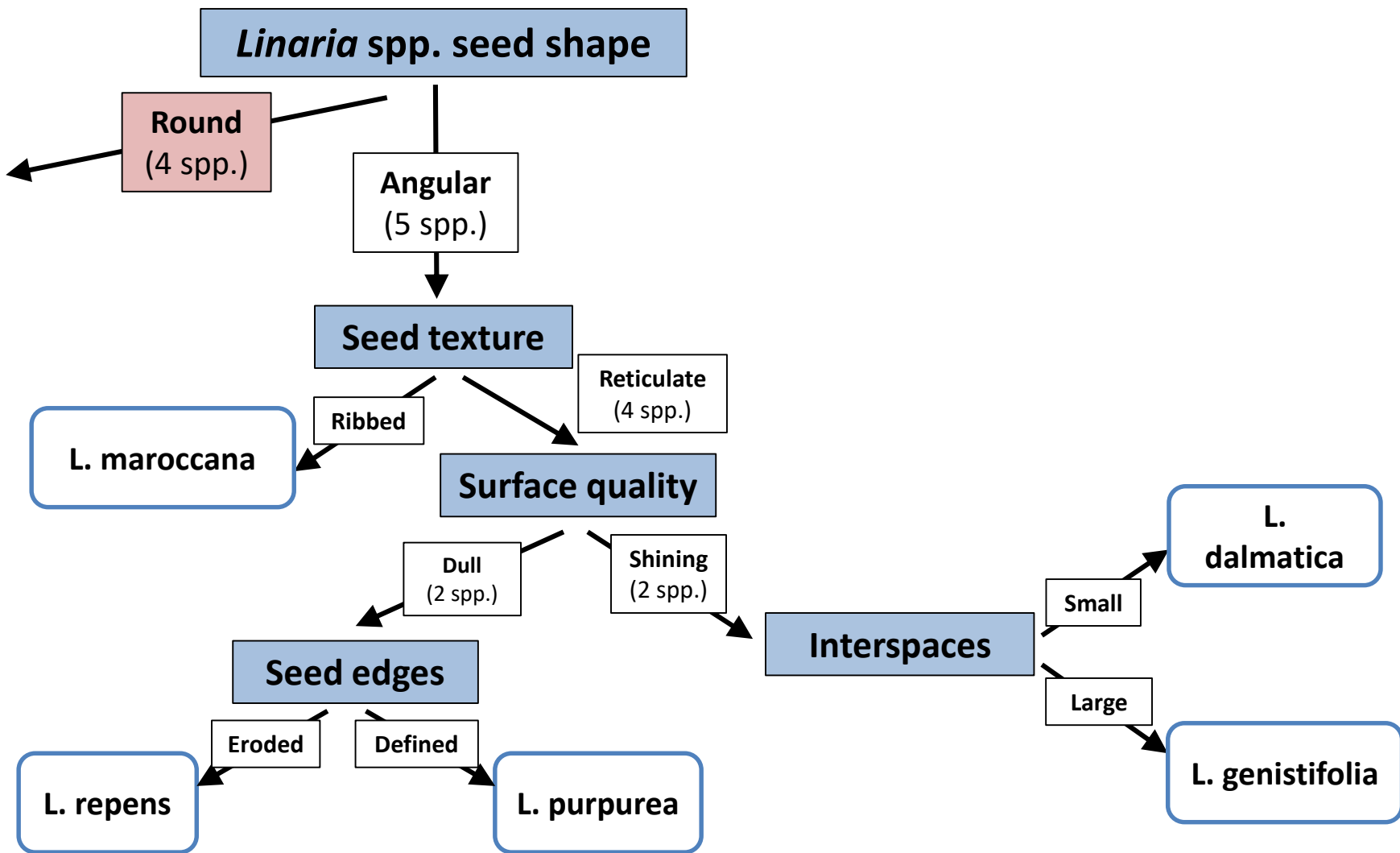


***Linaria supina***  
**(prostrate toadflax)**  
smooth form

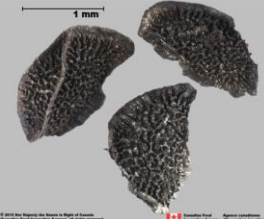






***Linaria tristis***  
**(melancholy toadflax)**

# Dividing *Linaria* spp. using seed features



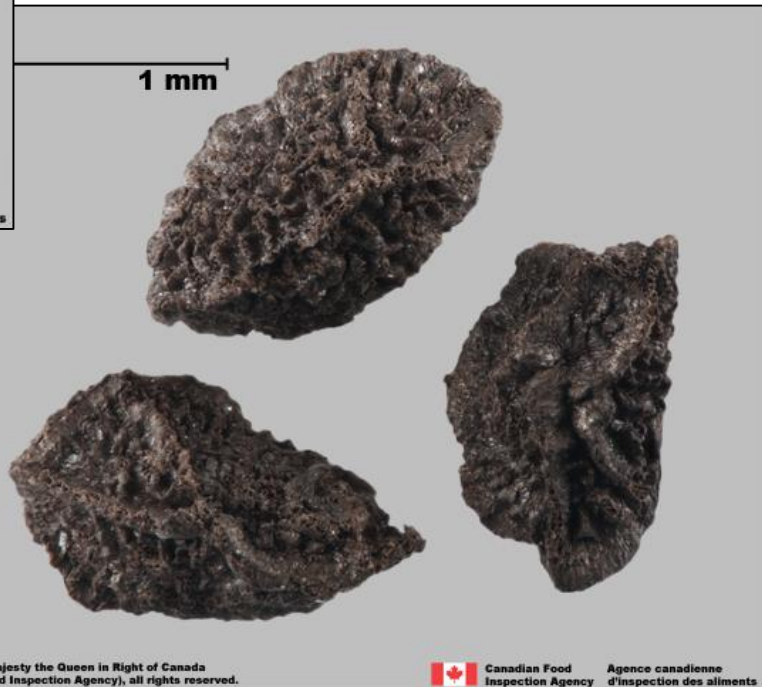
# Seed features of angular *Linaria* spp.

Feature/ Species	#5 <i>L. dalmatica</i> (Dalmatian toadflax)	#6 <i>L. genistifolia</i> (broomleaf toadflax)	#7 <i>Linaria maroccana</i> (Moroccan toadflax)	#8 <i>Linaria purpurea</i> (purple toadflax)	#9 <i>L. repens</i> (striped toadflax)
Reticulate surface	✓	✓		✓	✓
Surface dull				✓	✓
Surface shining	✓	✓	✓		
Edges eroded, porous					✓
Interspaces small	✓				
Interspaces large		✓		✓	✓
Image					

# Seed features of angular *Linaria* spp.



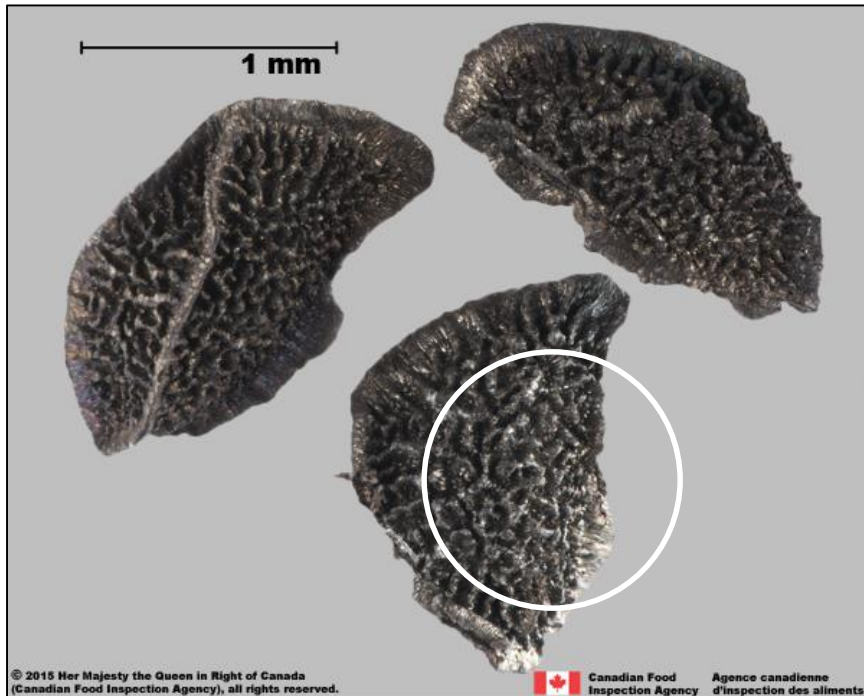
*Linaria purpurea*  
(purple toadflax)



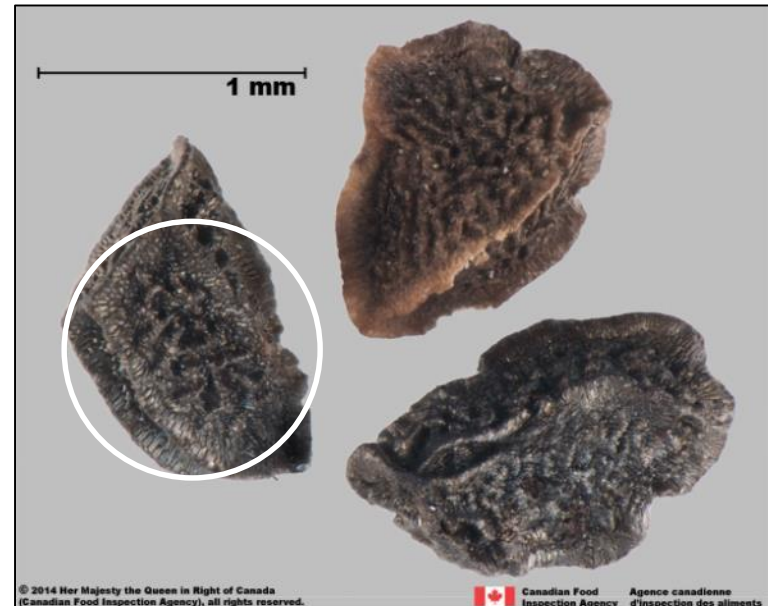
*Linaria repens*  
(striped toadflax)



# Seed features of angular *Linaria* spp.



***Linaria dalmatica***  
(Dalmatian toadflax)



***Linaria genistifolia***  
(broomleaf toadflax)