

# Conservation and use of plant genetic resources within vegetables



NordGen

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# NordGen material

- In total ~33000 accessions
- Vegetables: ~5600 acc.

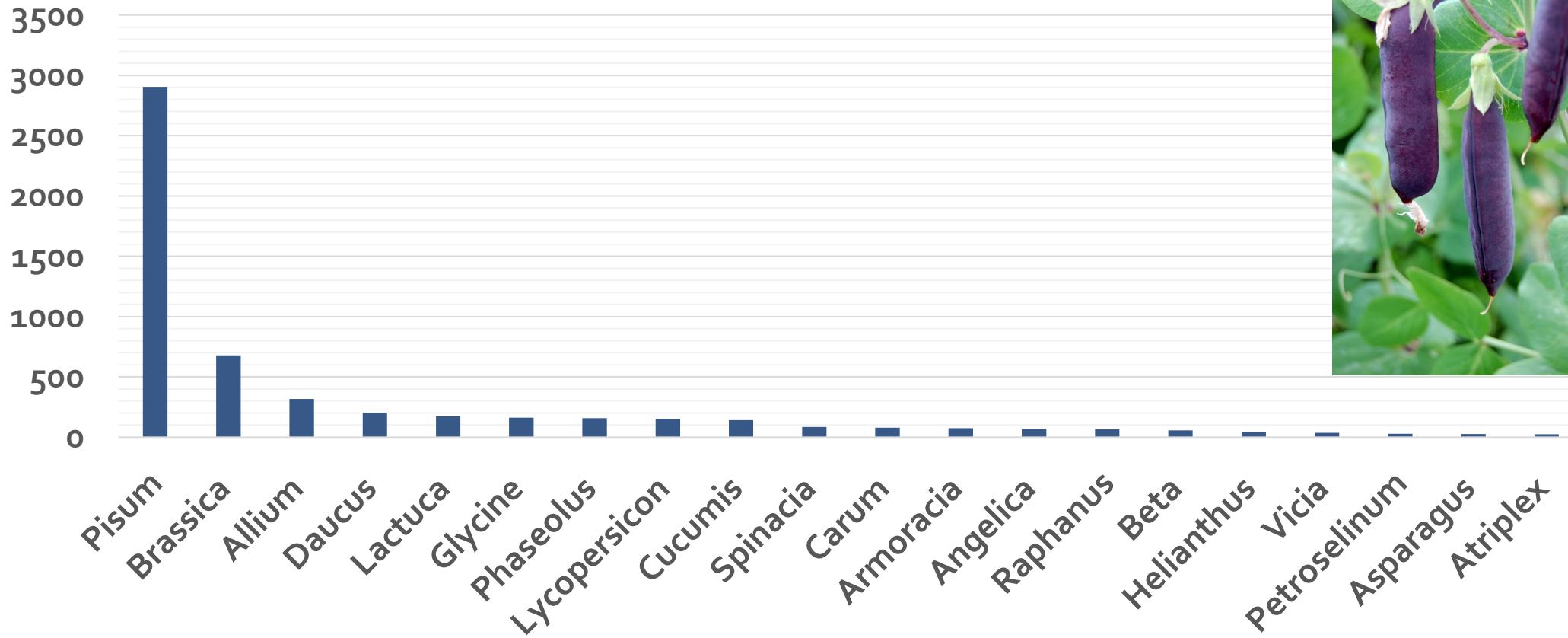


# Vegetables

- 55 genera
- 110 species (50% wild)
- 5600 accessions



# The 20 most frequent genera



Stig Blixts pisum collection explains the high number of Pisum!

# Conservation

- The staff don't have to worry for the major part of the collection!
  - Conservation easy when seed is good from start
  - Seed water content 5-7 %
  - Store in -18 °C
- However, yearly we need to multiply or regenerate ~100 species
  - Multiply when less than 250-750 seeds left
  - Regenerate when germination rate is under a defined level for the actual species

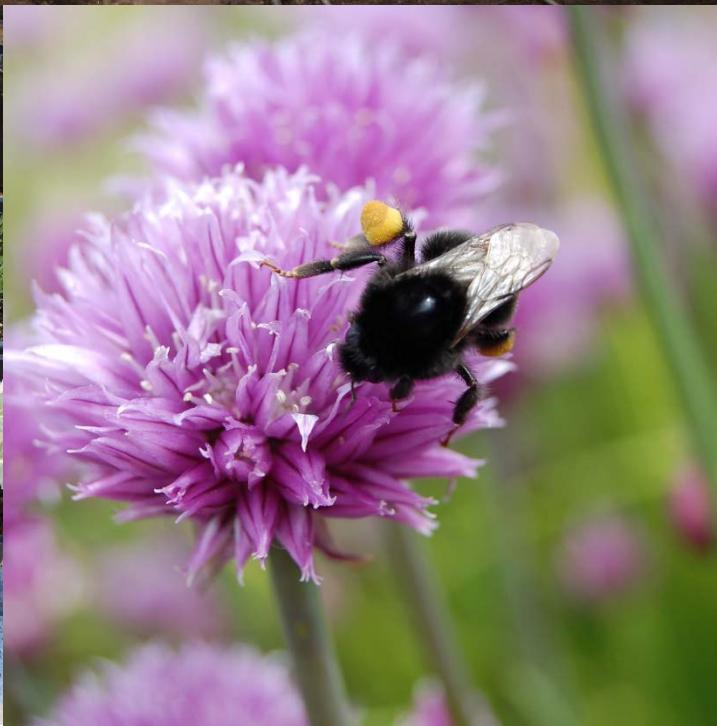


# Seed multiplication – a challenge

- Many different species
- Annuals, biennials, perennials
- Self- and crosspollinating species
- Insect- and windpollinated species
- Crop rotation
- Soil- and seedborne diseases



Picture: Radish with very few seeds and with low germination rate

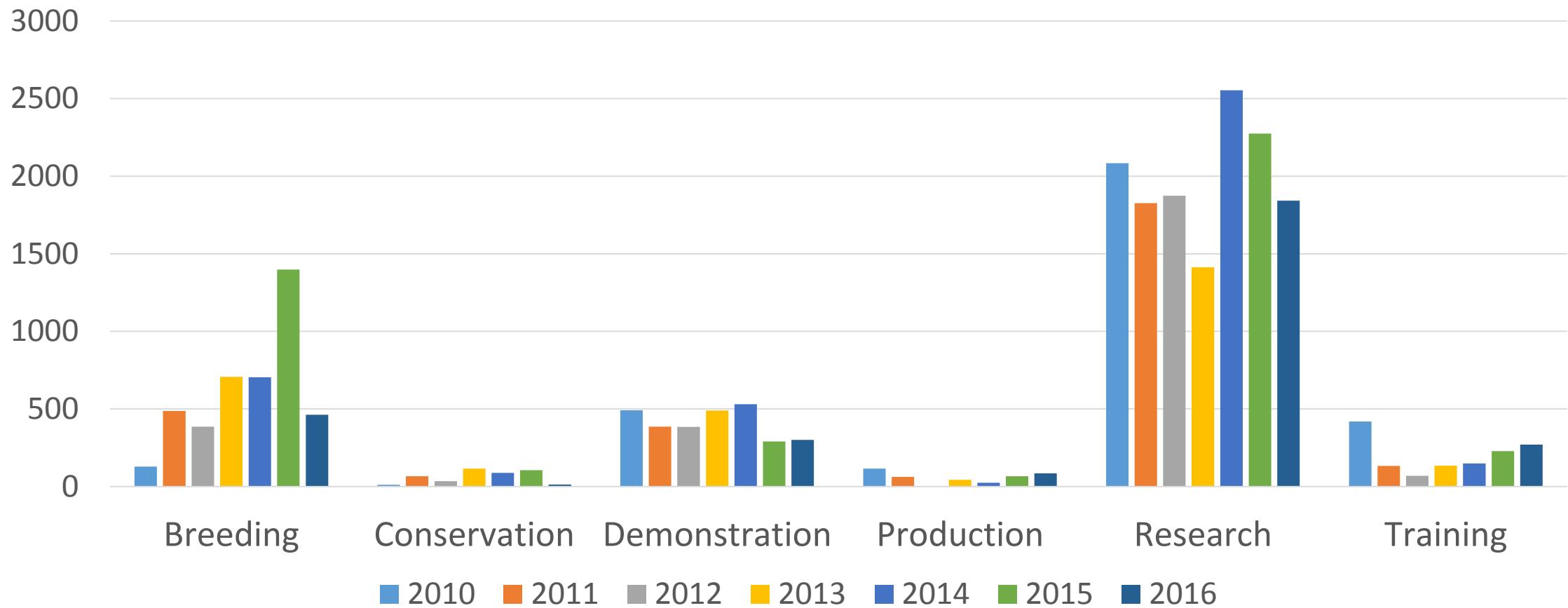




# Utilization

Nr of acc.

Accession sent non-private



# Utilization

Nr of acc.

Accessession sent private persons included

7000

6000

5000

4000

3000

2000

1000

0

Breeding

Conservation

Demonstration

Production

Research

Training

Private



■ 2010 ■ 2011 ■ 2012 ■ 2013 ■ 2014 ■ 2015 ■ 2016

# Ongoing projects with external funding

- CarrotDiverse
- Opformering af gamle danske OP kålsorter og udarbejdelse af dyrkningsmanualer
- WG project grain legumes: Pea evaluation
- WG project grain legumes: Fava bean evaluation
- User-genebank
- Wild Brassica, AFLP
- Cabbage duplicates NordGen – VIR



# Thank you

