

Organic plant breeding in Switzerland – without GMO's !

Sweet Corn breeding



Sativa Rheinau AG:

- Part of the project Fintan
- 60 multiplying farms = 500 ha seed production
- > 400 different varieties of vegetables
- Conservation of old vegetable varieties
- Organic breeding for organic agriculture



Own vegetable breeding programmes in:

- aubergine, brussel sprouts, carrots, celeriac, courgette, kohlrabi, onions, sweet corn ...

Partner for other breeding programmes:

- Getreidezüchtung Peter Kunz:
- New varieties for organic farming in wheat, spelt, maize, sunflower ...
- www.gz.peter-kunz.ch
- www.avenirsem.ch



ZUKUNFT SÄEN!

Sweet corn – global situation:

- Only 4 breeder left on the world
- Commercial seeds are produced to nearly 100% in USA
- Breeders are also working with gmo techniques
- Sweet corn is completely produced by using F 1 hybrid varieties of sh2 type

Sweet corn – problems with cross pollination !



sativa
biofertilizer • biopest • seed treatment

Targets of the Sativa sweet corn breeding programm:

- Open pollinated varieties in sh2 - type
- > 95% of the yield of the most frequent F1 hybrid varieties
- Adaption to the needs of organic agriculture
- Question the dogma of hybrids
- „Open Source Seed Ware“
- Make GMO free sure on a long-term basis

sativa
biofertilizer • biopest • seed treatment

- 2004: testing of 60 different hybrid varieties (sh2)
- 2005: cultivation of F2
- 2006: crossing generation
- 2007 – 2010 intense selection under organic conditions
- 2010 official registration of 5 new varieties



sativa
bioökologische Pflanzen und Bioprodukte

Important question:

Are hybrids the
only way to have
high yields ?



sativa
bioökologische Pflanzen und Bioprodukte

How can we finance
independent breeding ?

- Own resources of Sativa
- Contributions to projects
- donations



Food & Democracy Luzern 24. & 25.April 2009



sativa

Food & Democracy Luzern 24. & 25.April 2009



sativa



Testing of new lines on organic farms in

- Aargau (CH)
- Near lake of
Constance (D)
- Alsace (F)



Protection of gmo free
breeding work and
gmo free seed
production in our
region is essential

www.gen-au-rheinau.ch

