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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

WORKING GROUP ON BIOCHEMICAL AND MOLECULAR TECHNIQUES AND DNA PROFILING IN PARTICULAR

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ADDENDUM COMPARING WHEAT VARIETIES WITH THEIR OFFSPRING BY MOLECULAR MARKERS

Document prepared by an expert from Austria



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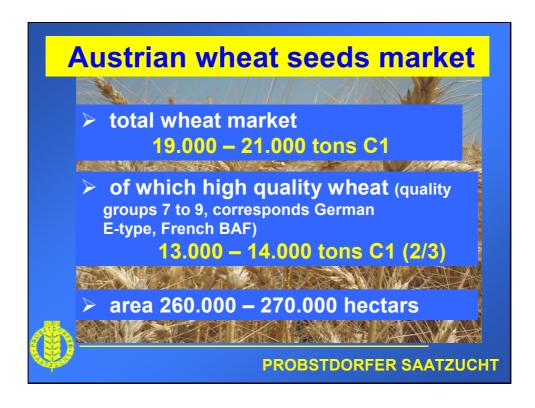
UPOV

Madrid, September 2008



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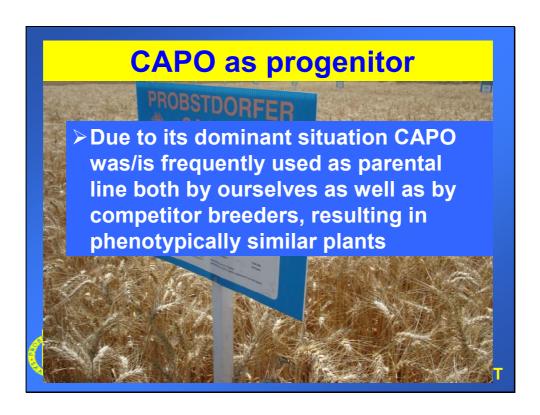




Registered high quality wheat varieties

- currently 28 varieties of which
 - 24 of Austrian breeding
 - 17 of Probstdorf / Saatzucht Donau
- Exclusive Situation
 - CAPO registrered 1989
 - still main variety
 - approx 35% share of seeds
 - leading in mulitplication area

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Comparison of CAPO with its offspring by molecular marker methods

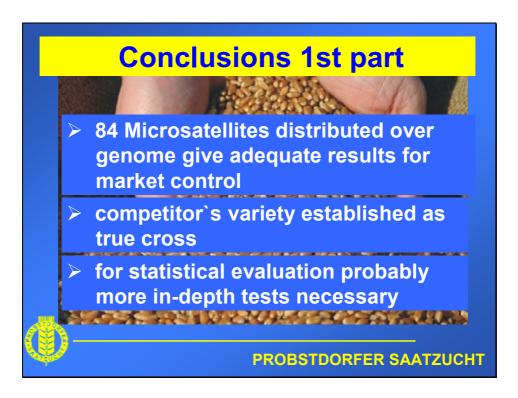
84 Microsatellites covering all chromosomes of wheat

- CAPO 1990
- CAPO 2007
- CAPO own cross (VAR)
- CAPO competitor's cross (VAR)
- Backcross with CAPO sisterline (VAR)
- 3 non related varieties

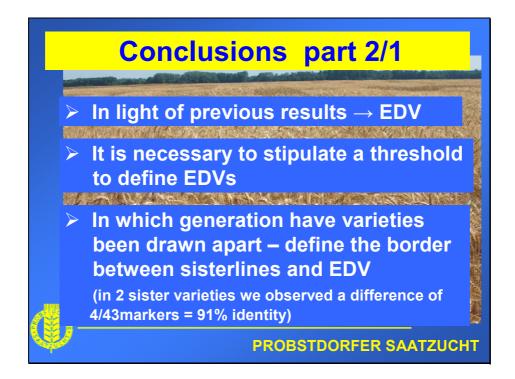


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Results of 84-Markers		
	Difference	Identity
CAPO 2007	No/84	%
CAPO 1990	0	100
CAPO own cross	18	78
CAPO competitor's cros	ss 19	77
Backcross CAPO sister	36	57
non related varieties	58-65	23-31
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And what is that? Our variety (reg. 1997) - 92 markers - 90 monomorph results - 2 polymorph results Competitor's variety (reg. 2001) - 90 identical monomorph res. - 2 monomorph results (of polym) comment? PROBSTDORFER SAATZUCHT





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