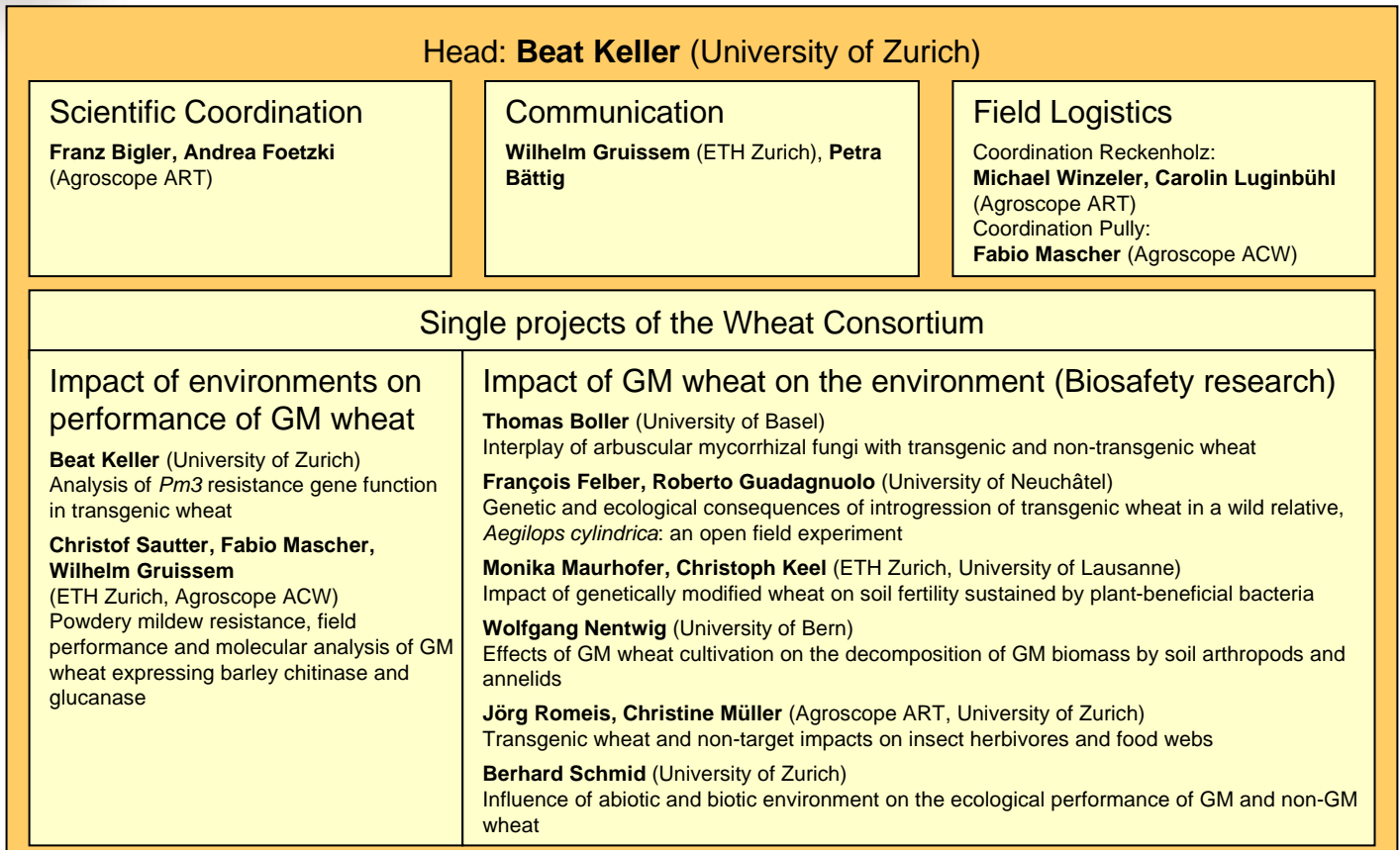




Wheat Consortium

Benefits and Risks of Genetically Modified Wheat with Improved Powdery Mildew Resistance

Structure and partners of the Wheat Consortium:



Objectives

- 1) Implementation of scientifically well-designed field trials for environmental benefit and risk analysis of GM spring wheat lines
- 2) Study of the regulatory processes and legal aspects of field trials with GM plants by other projects in NRP59
- 3) Contribution to an intensive, science-based discussion with the interested public

Field Experiments 2008-2010

Agroscope ART, Zurich-Reckenholz

- **Macro-plot experiments:** Investigation of ecological performance and of genetic, morphological and agronomic traits including yield and impact on non-target organisms
- **Micro-plot experiments:** Determination of the effect of the transgenes on the resistance reaction against powdery mildew and of the ecological consequences of the introgression of transgenes into the wild grass *Aegilops cylindrica*
- **Demonstration plots:** Demonstration of macro- and micro-plots to stakeholders and the public

Agroscope ACW, Pully

- **Yield-plot experiments:** Comparison of the agronomic performances, the morphology, phenology and physiology of GM wheat lines with the original and control varieties
- **Disease resistance experiment:** Testing of the resistance potential of the wheat genotypes against the most important fungal diseases in Switzerland