

History

• traditional :

Statistische
Auswertungen

- selection based
on evaluations done
using phenotypes and
pedigree

Stammbaum

Leistungs-
merkmale

50
Traits
in cattle:
(• Milch
• Fett/protein
• Gesundheit
• Methan)

• Genomics (~~2009~~ 2012 in CH)

- Human genome project → Determination
of genotypes for
a large number of
animals became
cheap

→ Genotypes for Livestock animals
on scale

(Dairy Cattle : Brown Swiss ≈ 100'000 genotyped
animals

SI/SF/HOL ≈ 350'000 "

1 genotype

150'000 single
nucleotide

polymorphisms (SNP)