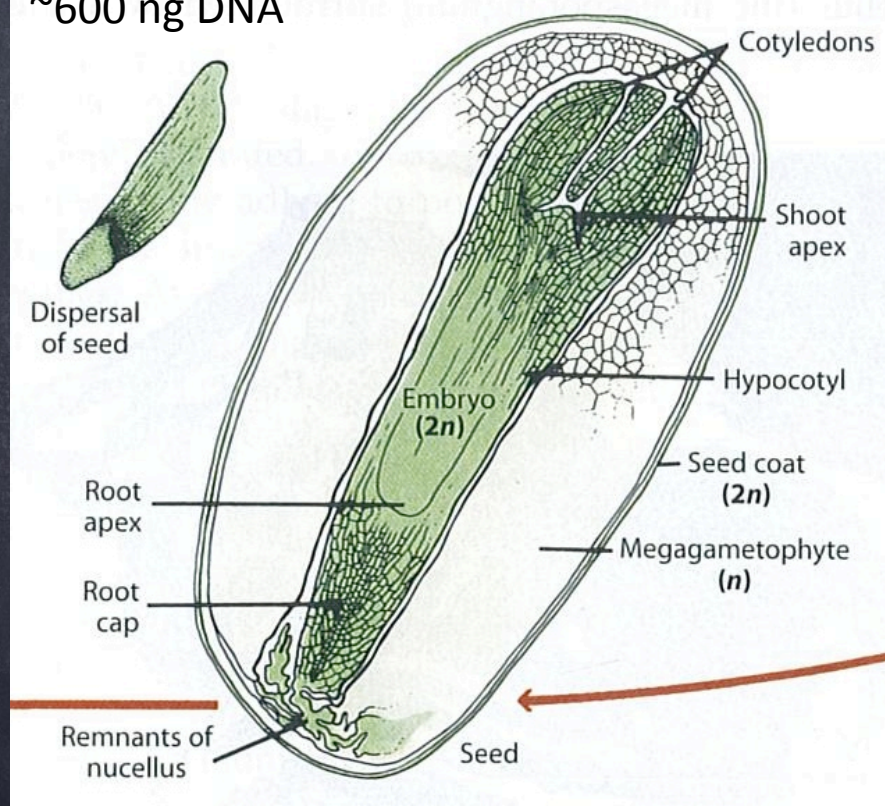


Data at hand

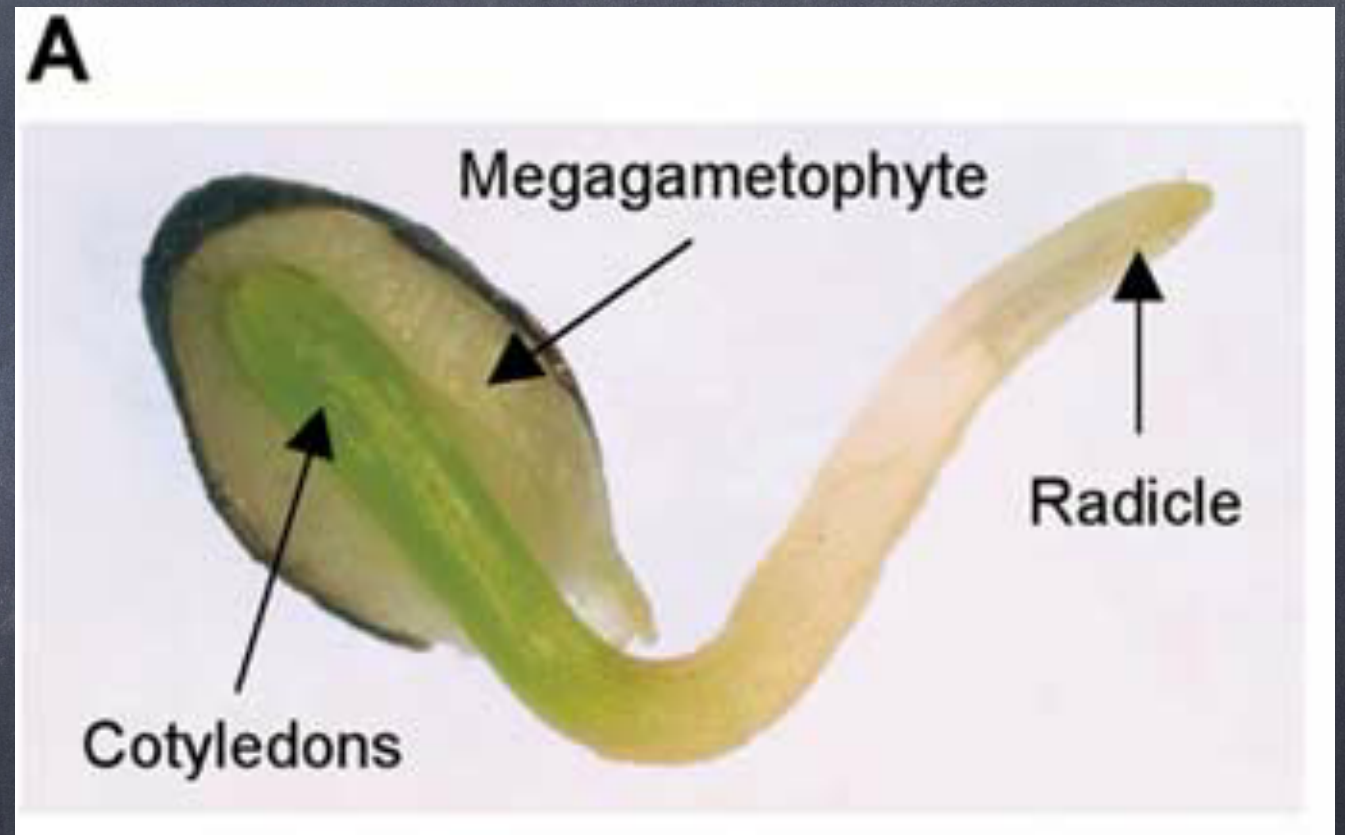
Zygotic Embryo development in Norway spruce

The megagametophyte is
haploid from the mother.

~600 ng DNA

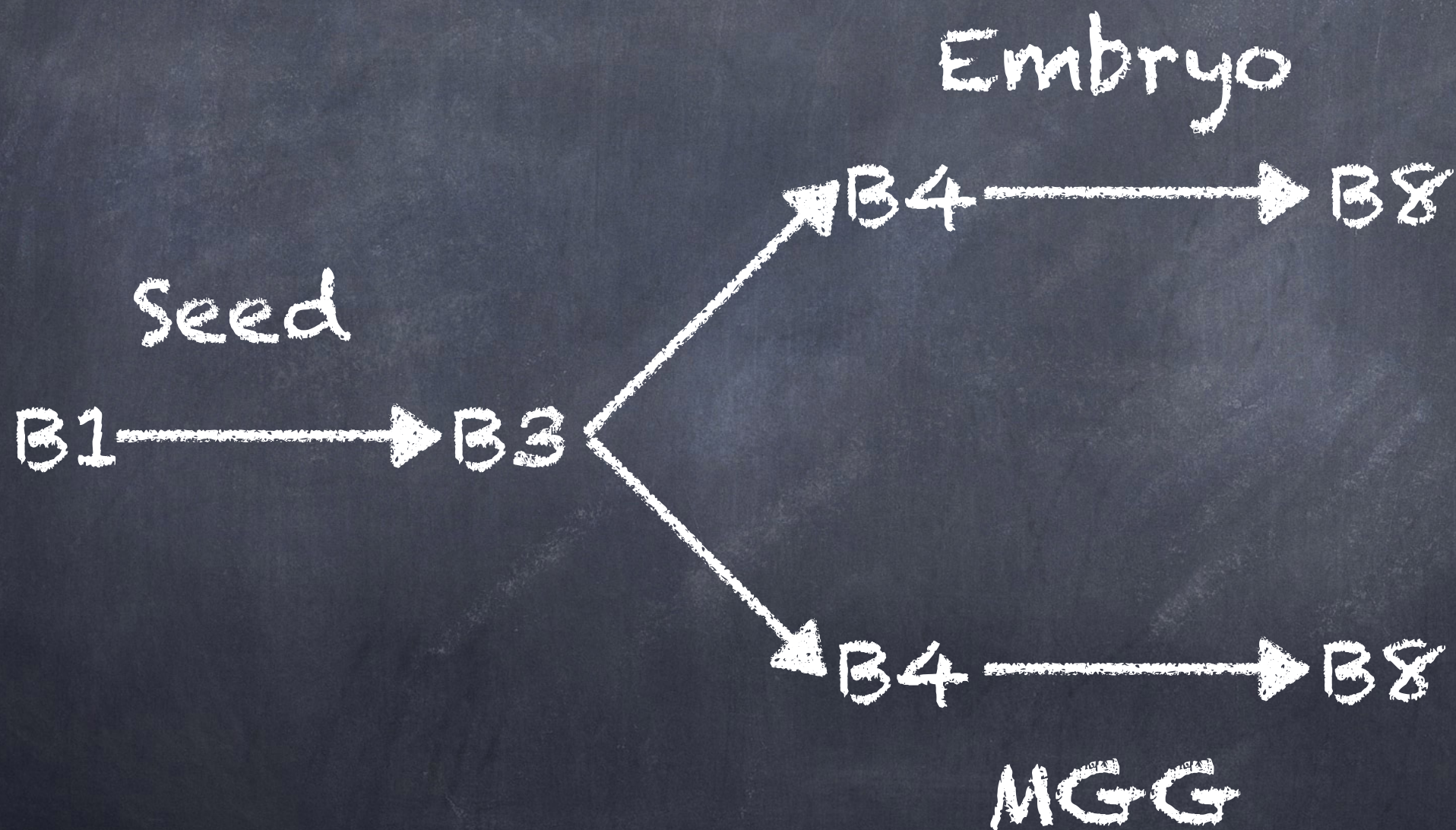


Nystedt, Street et al., Nature, 2013



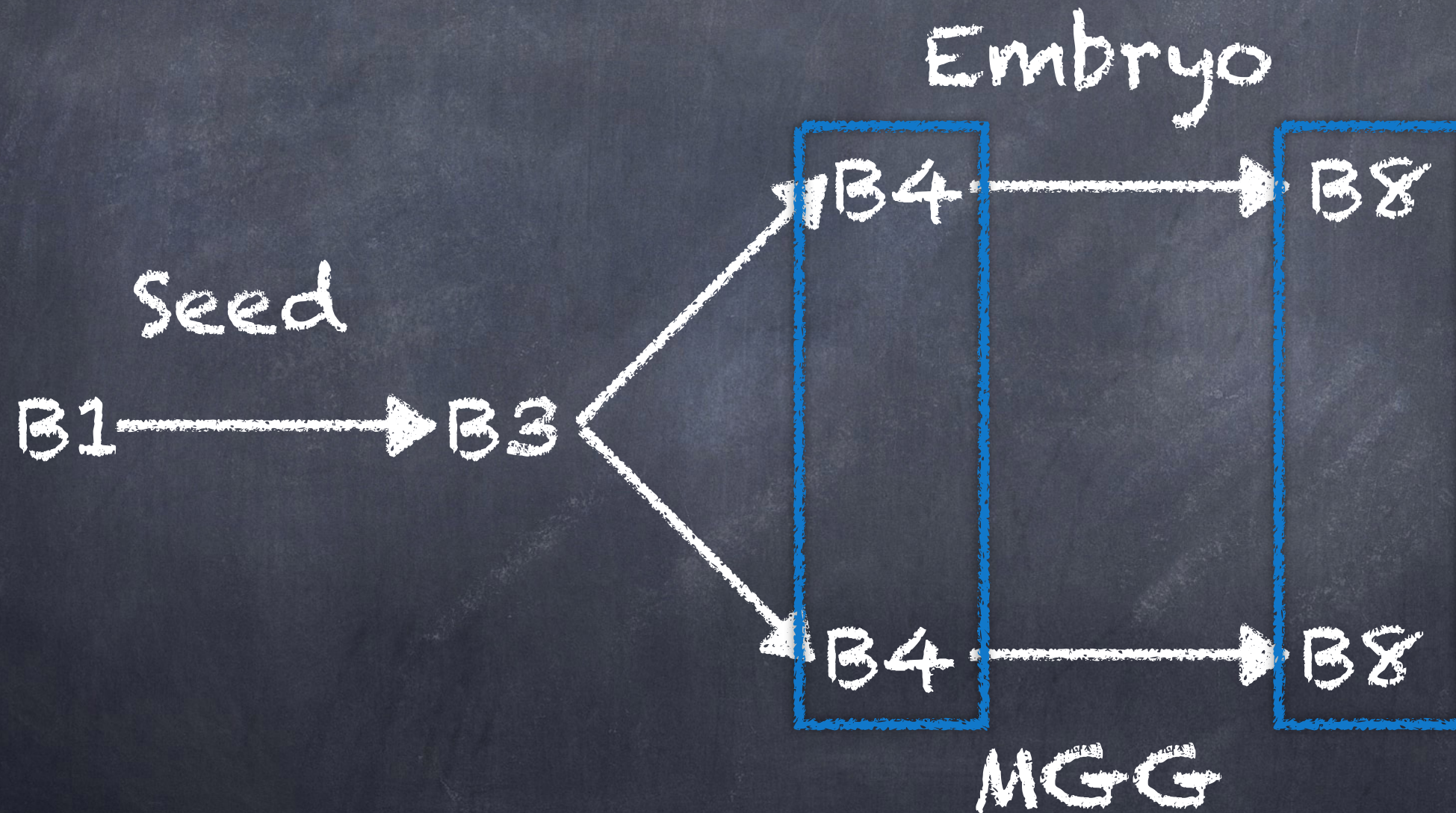
Xe et al., Plant Mol. Biol., 2003

Developmental series



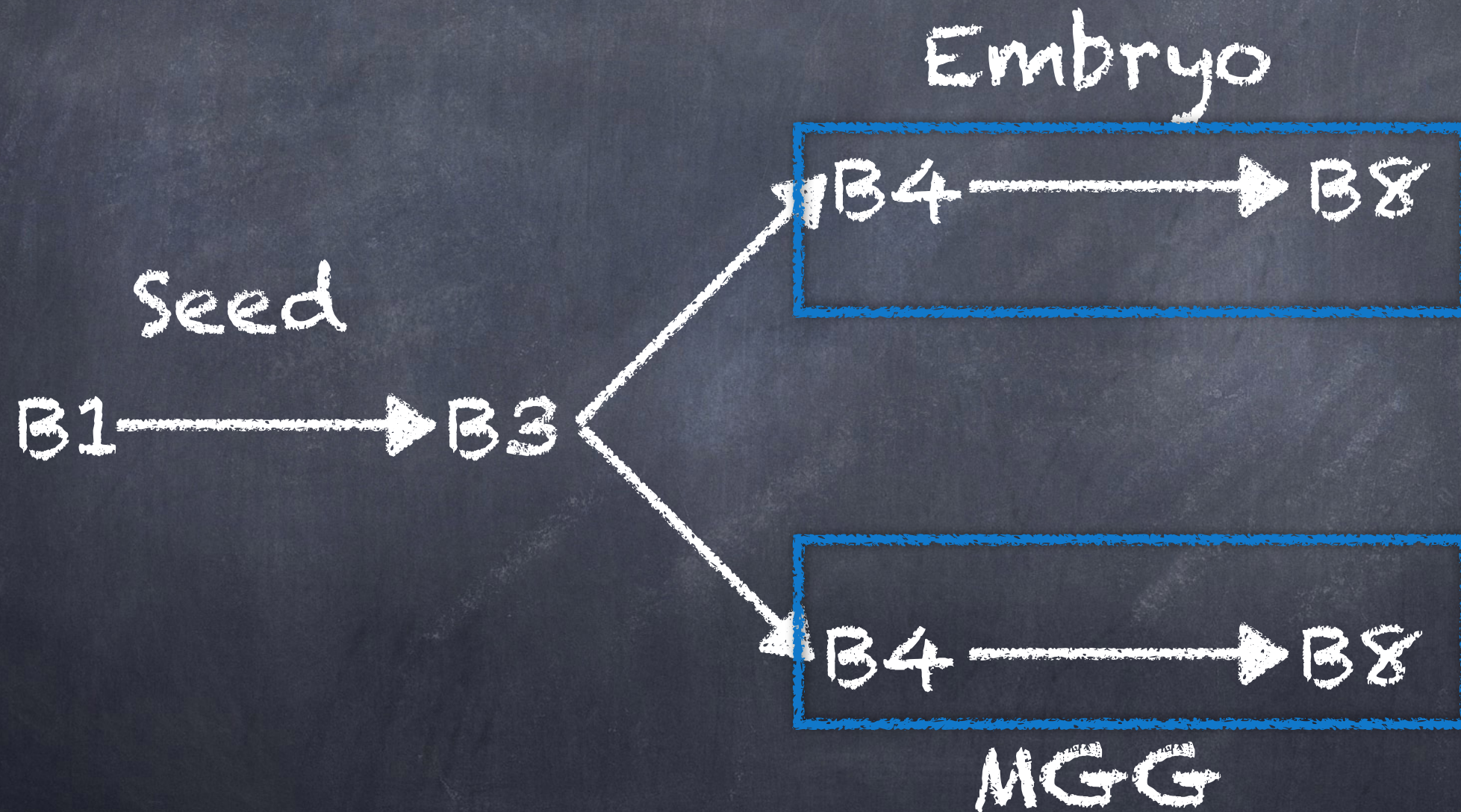
Developmental series

expression ~ Tissue



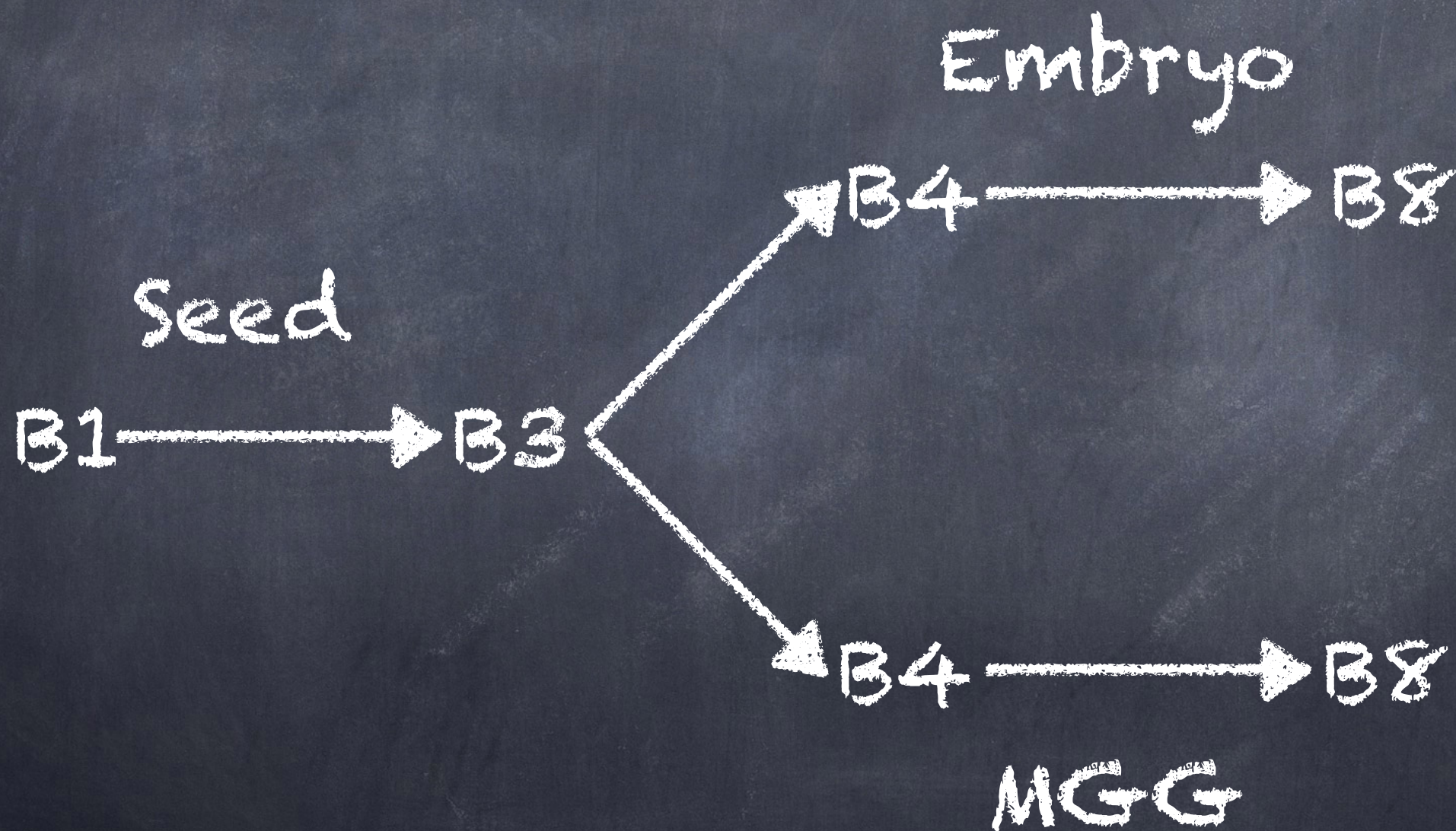
Developmental series

expression ~ Stage



Developmental series

expression ~ Stage + Tissue + Stage:Tissue



What we "really" have

- all 8 stages
- a similar developmental series for somatic embryogenesis (embryos derived from somatic tissue)
- similar design for sRNA
- integrative analysis, including gene regulatory inferences

Discussion

- We have a genome. Why would we need a transcriptome?

P11562_110	B4	FMG
P11562_111	B4	ZE
P11562_112	B4	FMG
P11562_113	B4	ZE
P11562_114	B4	FMG
P11562_115	B4	ZE
P11562_134	B8	FMG
P11562_135	B8	ZE
P11562_136	B8	FMG
P11562_137	B8	ZE
P11562_138	B8	FMG
P11562_139	B8	ZE