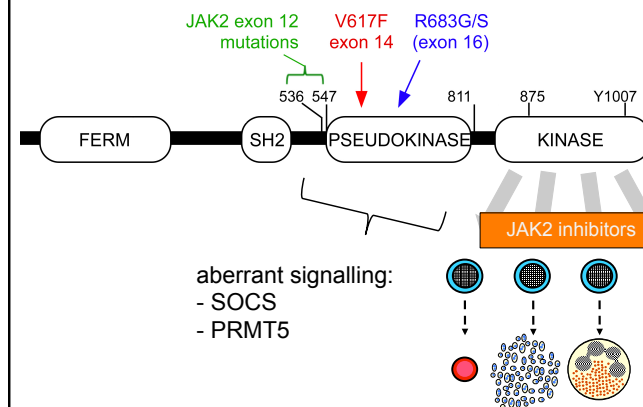


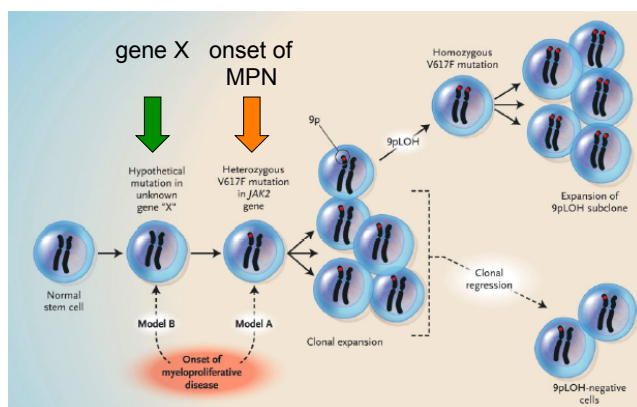
Clonal hierarchy in myeloproliferative neoplasms

Radek Skoda

JAK2 Mutations in MPN

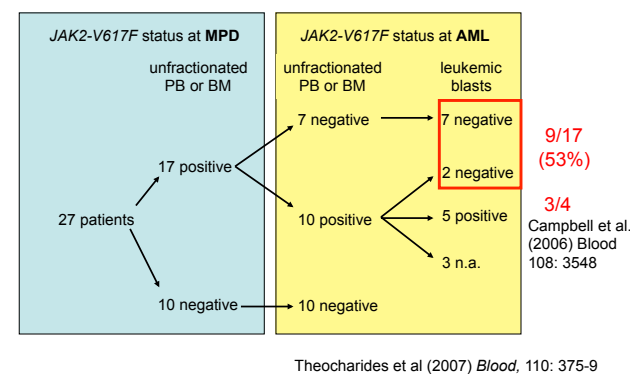


Model

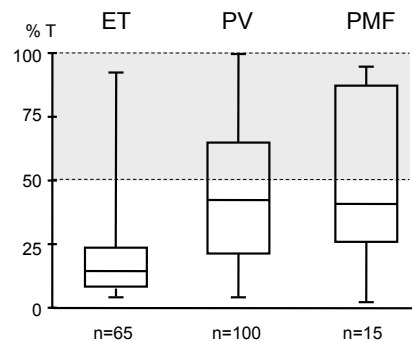


Kralovics et al (2005) *NEJM*, 352: 1779-90

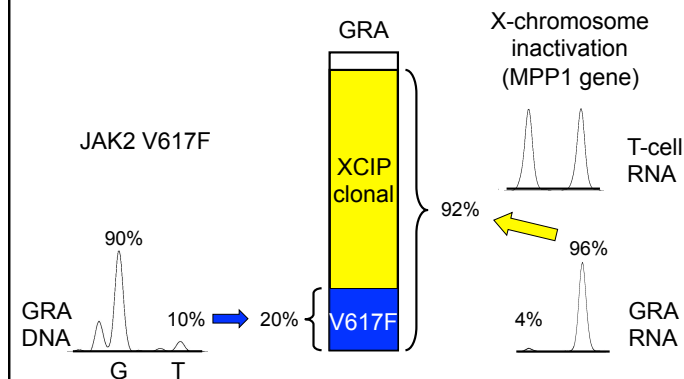
JAK2-V617F in AML



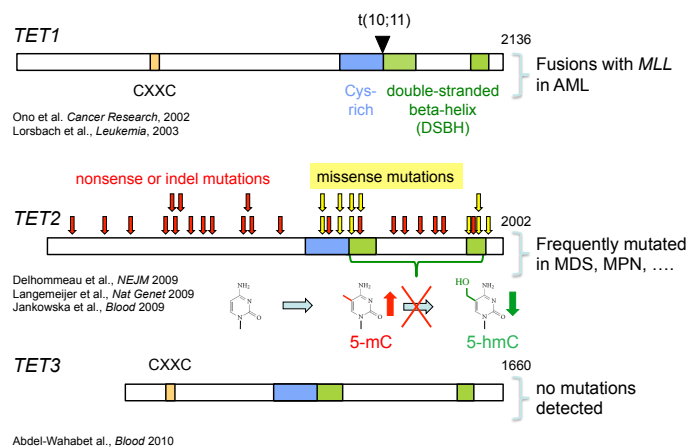
JAK2-V617F in MPD (AS-PCR)



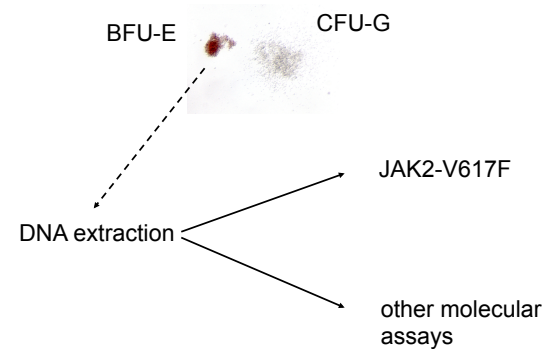
Allele specific PCR for JAK2-V617F



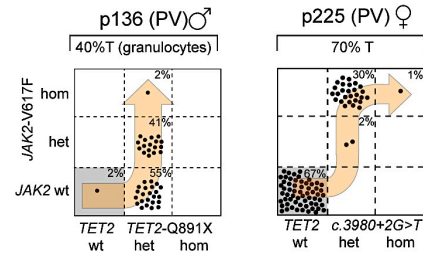
„Ten-eleven translocation“ (TET) gene family



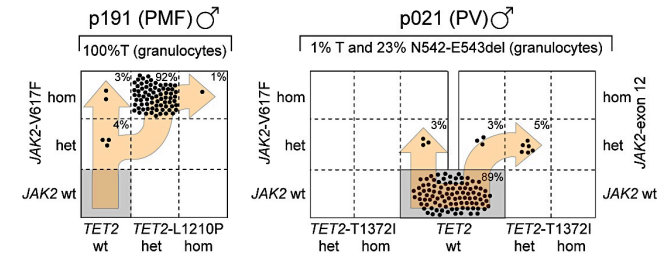
Analysis of single colonies



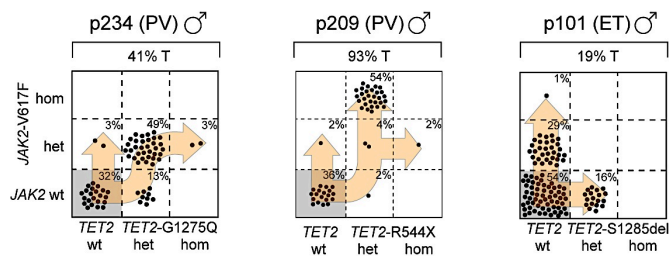
TET2 before JAK2



JAK2 before TET2

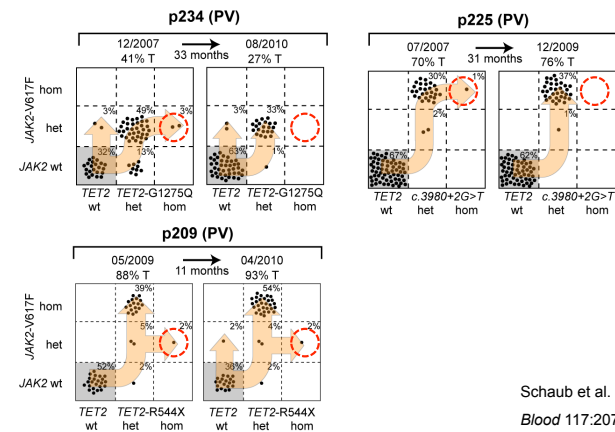


TET2/JAK2: bi-clonal disease

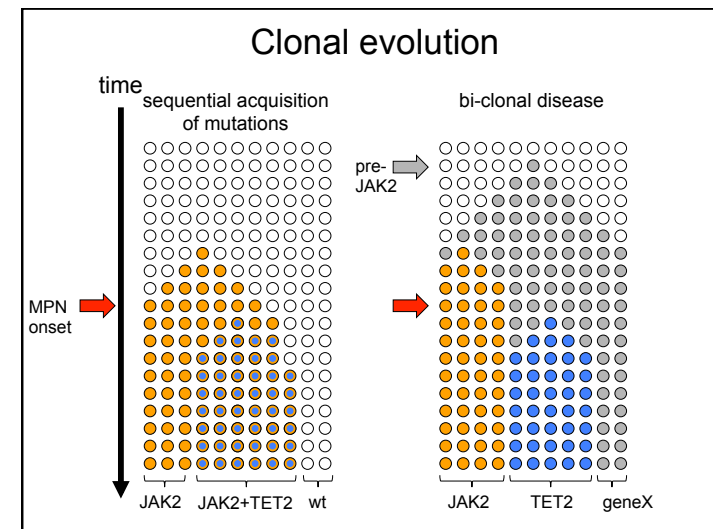
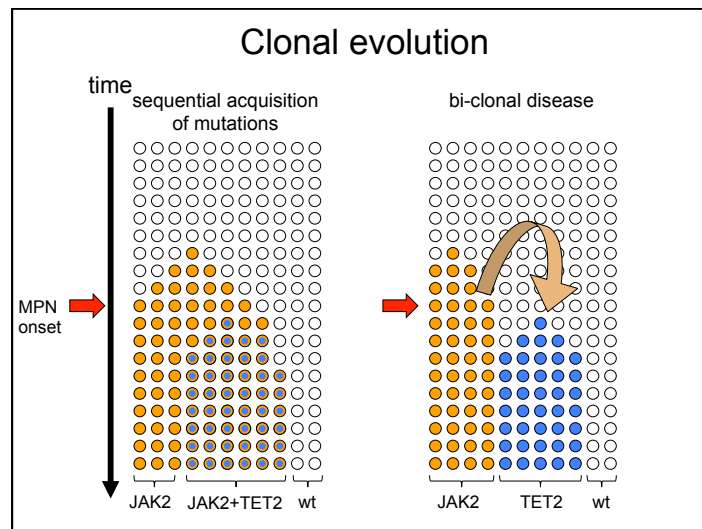
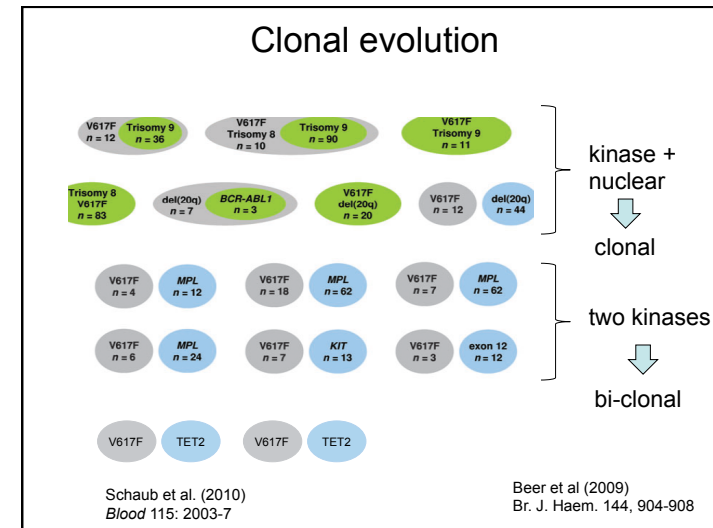
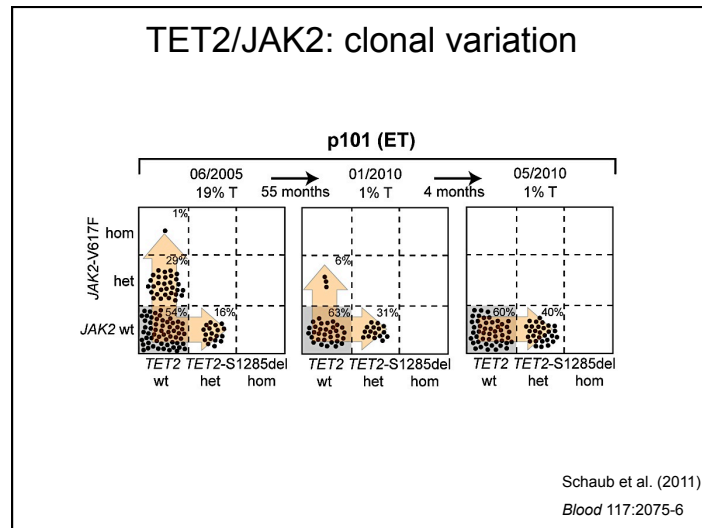


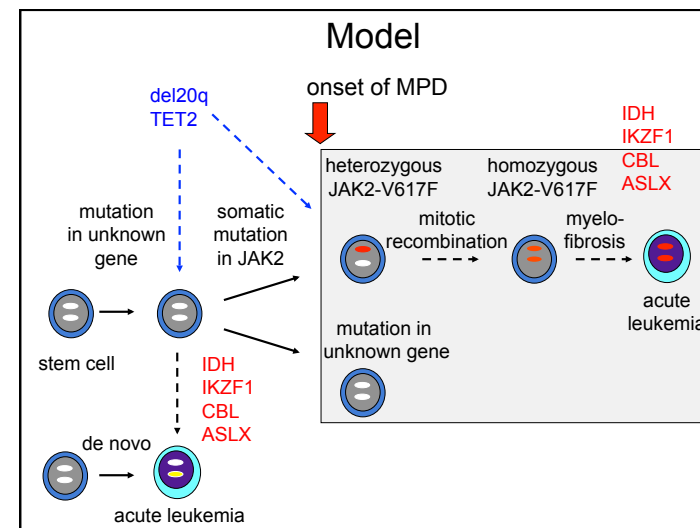
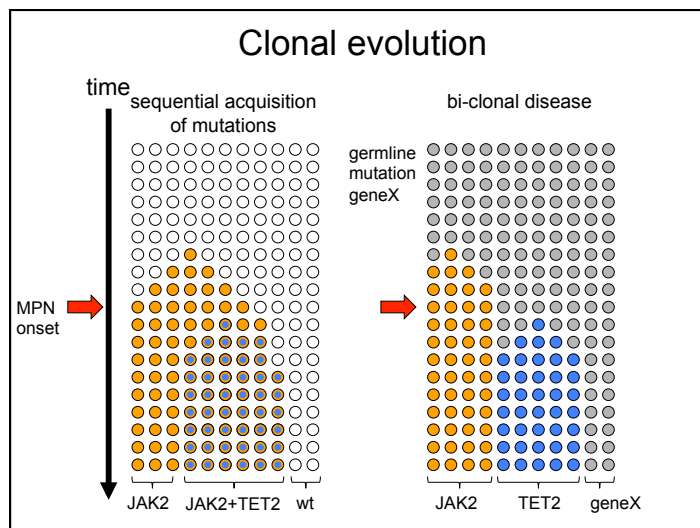
Schaub et al. (2010)
Blood 115: 2003-7

TET2 homozygosity does not seem to provide an advantage over heterozygosity



Schaub et al. (2011)
Blood 117:2075-6





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