

Supplementary Information for:

Herbicide glufosinate inhibits yeast growth and extends longevity during wine fermentation

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This file contains 3 Supplementary Figures and the original Western blot images used to prepare Figure 5

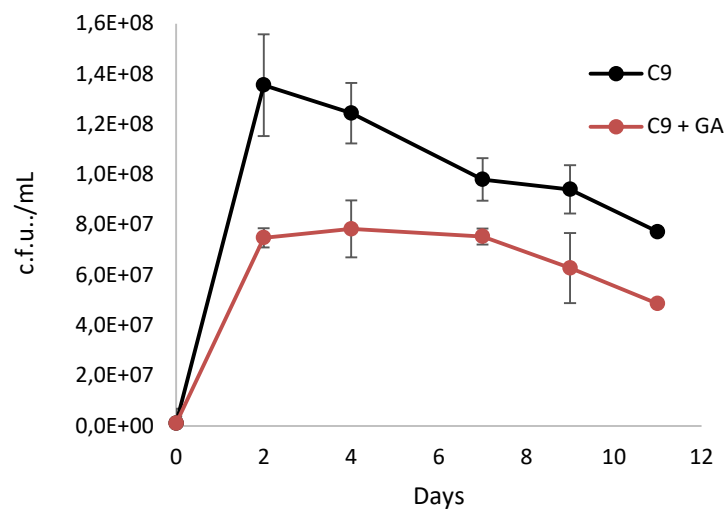
Supplementary Figure S1. Sensitivity to GA in different genetic backgrounds. A) Natural grape juice fermentation by haploid wine strain C9 with and without 10 mg/L GA. Viable cell number were expressed as c.f.u/mL. Experiments were done in triplicate. The mean and standard deviation are provided. B) Spot assays on SD+uracil plates containing GA at different amounts of wine strains EC1118 and C9 and laboratory strains CEN.PK and BQS252 (*MAT a ura3-52*, a FY1679 derivative with S288c genetic background).

Supplementary Figure S2. Interaction between *GCN5* deletion and GA in winemaking conditions. A) Viable cell number in synthetic grape juice fermentations of the C9 wine strain and its *gcn2D* derivative with or without 10 mg/L GA, measured as cfu/mL. B) Survival curve along the aforementioned vinifications. Viable cell number at day 5 from Panel A was taken as 100% survival. C) Sugar consumption during fermentations. Experiments were done in triplicate. The mean and standard deviation are provided.

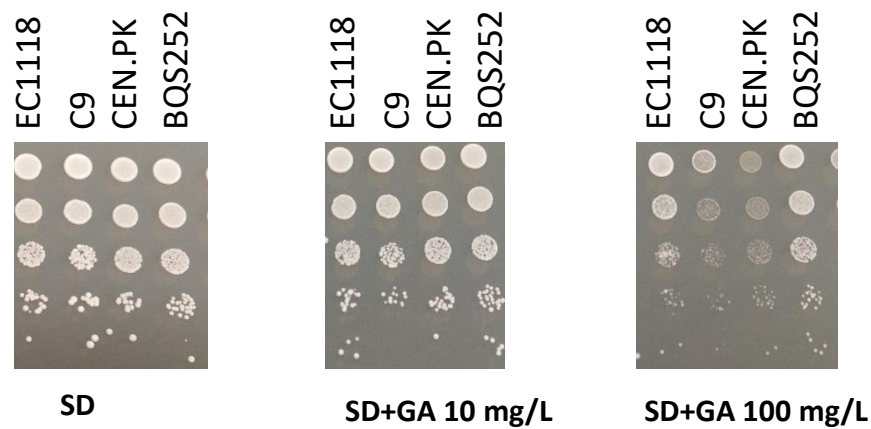
Supplementary Figure S3. Metabolomic data on the alteration of NAD salvage pathway by GA.

Supplementary Figure S1

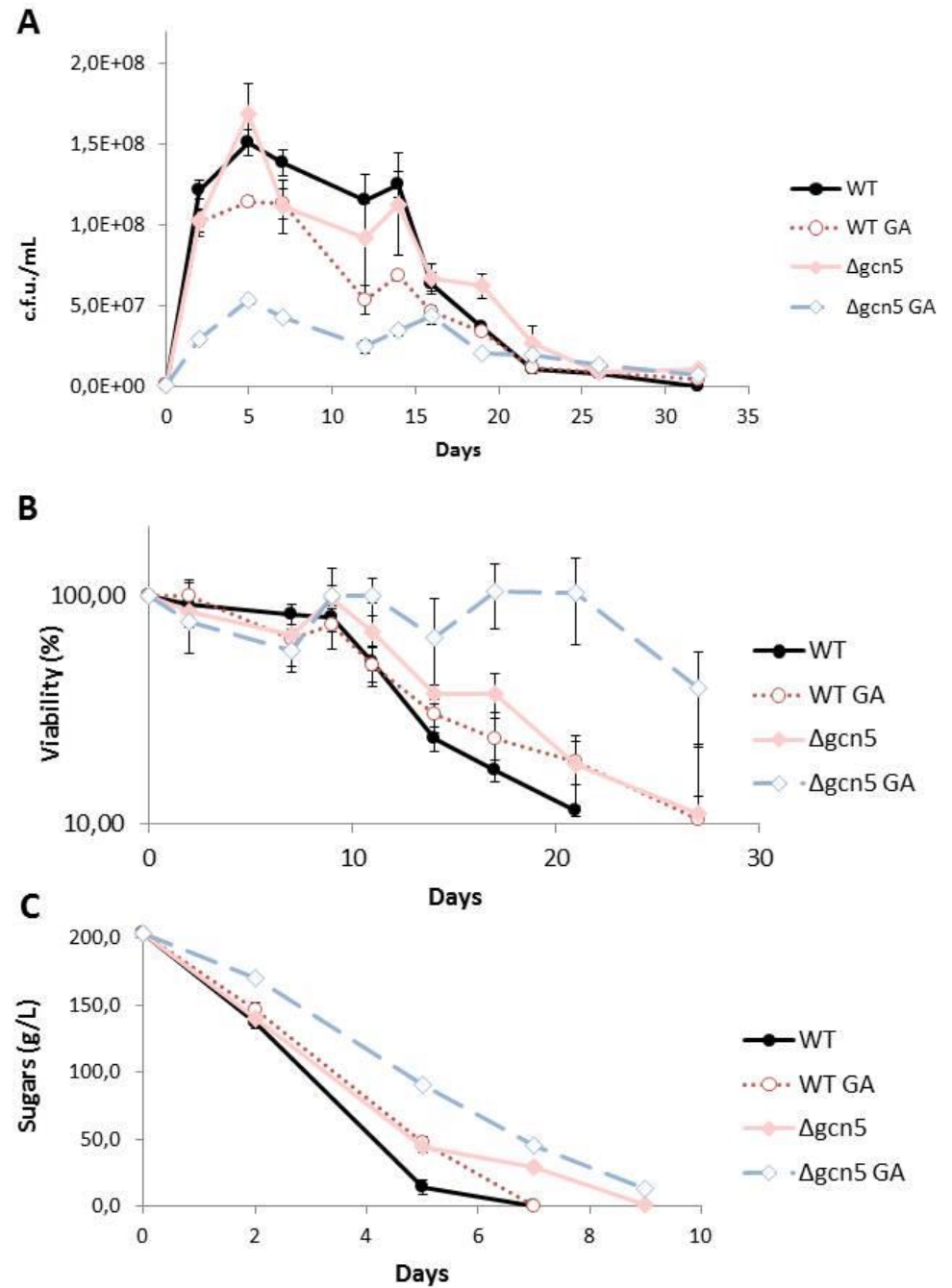
A)



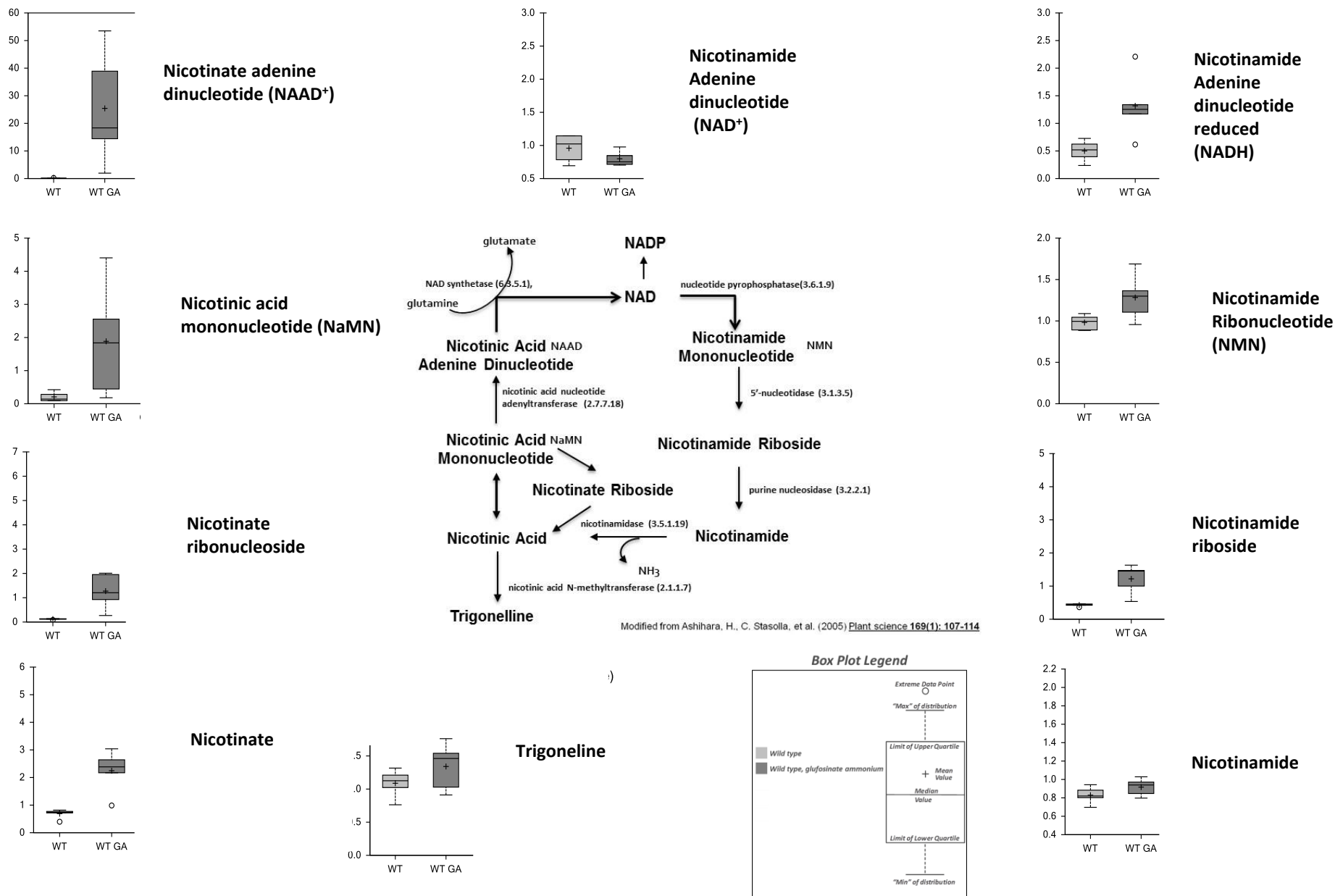
B)



Supplementary Figure S2

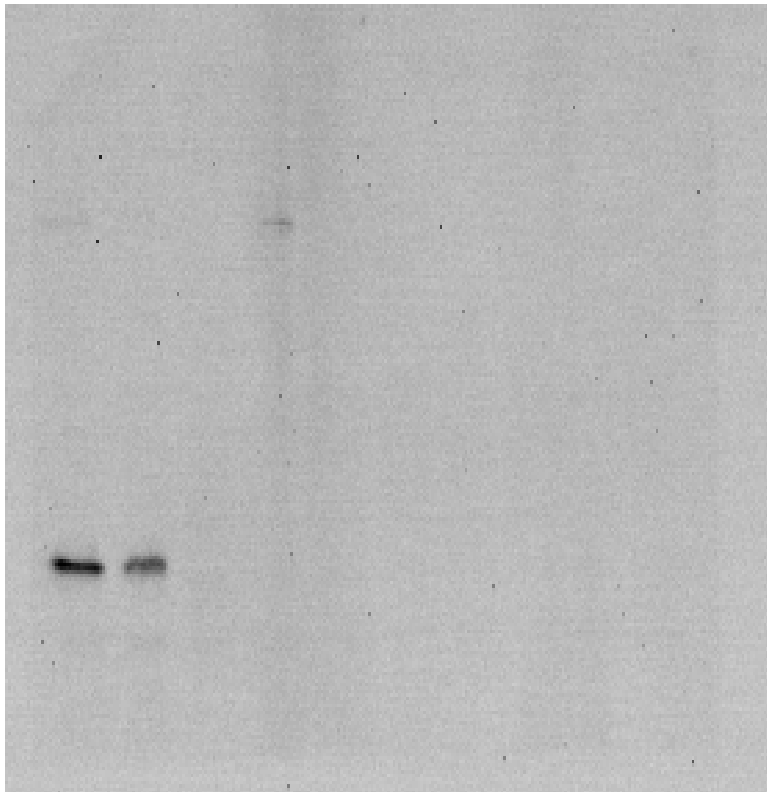


Supplementary Figure S3. Alteration of the NAD Salvage Pathway



Original images from Figure 5 Western blot

p-Rps6



Rps6 loading control

